

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER


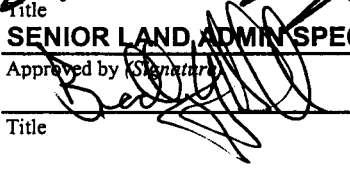
FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>UTU-25880</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No.
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7024</b>	8. Lease Name and Well No. <b>BITTER CREEK 1122-6E</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SW/NW 2343'FNL, 1070'FWL (LOT 5) 39.89 06 70</b> At proposed prod. Zone <b>628077X 4416487Y -109.502020</b>		9. API Well No. <b>43-047-31760</b>
10. Field and Pool, or Exploratory <b>UNDESIGNATED Bitter Creek</b>		11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 6, T11S, R22E</b>
12. County or Parish <b>UINTAH</b>		13. State <b>UTAH</b>
14. Distance in miles and direction from nearest town or post office* <b>38.25 +/- MILES SOUTHEAST OF OURAY, UTAH</b>	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1070'</b>	16. No. of Acres in lease <b>614.64</b>
17. Spacing Unit dedicated to this well <b>40.00</b>	18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>8590'</b>
20. BLM/BIA Bond No. on file <b>BOND NO. WYB000291</b>		21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5541'GL</b>
22. Approximate date work will start*		23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>10/30/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>11-07-07</b>
Title <b>ENVIRONMENTAL MANAGER</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED  
NOV 02 2007  
DIV. OF OIL, GAS & MINING

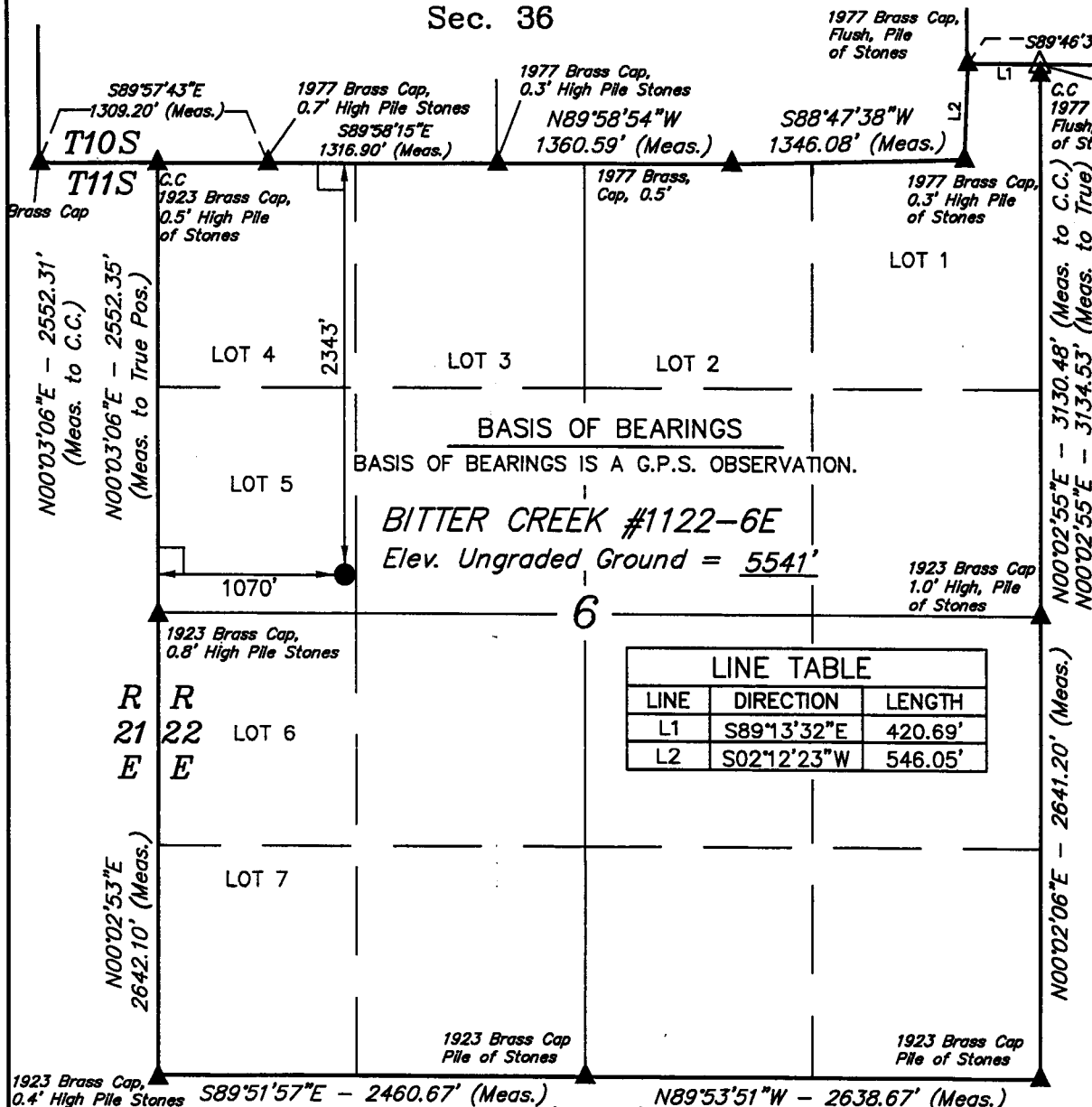


T11S, R22E, S.L.B.&M.

Sec. 36

Kerr-McGee Oil & Gas Onshore LP

Well location, BITTER CREEK #1122-6E, located as shown in Lot 5 of Section 6, T11S, R22E, S.L.B.&M., Uintah County, Utah.



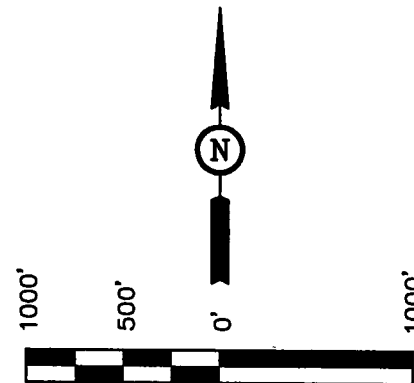
BASIS OF BEARINGS  
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

BITTER CREEK #1122-6E  
Elev. Ungraded Ground = 5541'

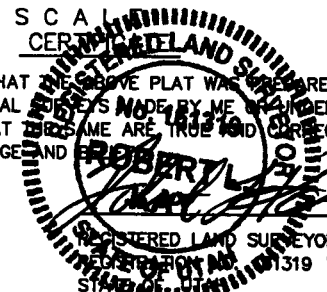
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°13'32"E	420.69'
L2	S02°12'23"W	546.05'

BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-20-07	DATE DRAWN: 07-09-07
PARTY J.M. K.D. C.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE Kerr-McGee Oil & Gas Onshore LP	

- LEGEND:
- = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
LATITUDE = 39°53'24.67" (39.890186)  
LONGITUDE = 109°30'09.86" (109.502739)  
(NAD 27)  
LATITUDE = 39°53'24.79" (39.890219)  
LONGITUDE = 109°30'07.40" (109.502056)



**BITTER CREEK 1122-6E  
SW/NW LOT.5, SEC. 6, T11S, R22E  
UINTAH COUNTY, UTAH  
UTU-25880**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	923'
Top of Birds Nest Water	1201'
Mahogany	1545'
Wasatch	4000'
Mesaverde	6514'
MVU2	7533'
MVL1	8147'
TD	8590'

**2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	923'
	Top of Birds Nest Water	1201'
	Mahogany	1545'
Gas	Wasatch	4000'
Gas	Mesaverde	6514'
Gas	MVU2	7533'
Gas	MVL1	8147'
Water	N/A	
Other Minerals	N/A	

**3. Pressure Control Equipment (Schematic Attached)**

*Please refer to the attached Drilling Program.*

**4. Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

**5. Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

**6. Evaluation Program:**

*Please refer to the attached Drilling Program.*



7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8590' TD, approximately equals 5326 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3436 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

10. **Other Information:**

*Please refer to the attached Drilling Program.*





# **KERR-McGEE OIL & GAS ONSHORE LP** **DRILLING PROGRAM**

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE October 30, 2007  
WELL NAME BITTER CREEK 1122-6E TD 8,590' MD/TVD  
FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 5,540' GL KB 5,555'  
SURFACE LOCATION SW/NW LOT 5, T11S, R22E 2343'FNL, 1070'FWL BHL Straight Hole  
Latitude: 39.890186 Longitude: 109.502739  
OBJECTIVE ZONE(S) Wasatch/Mesaverde  
ADDITIONAL INFO Regulatory Agencies: BLM (SURF & MINERALS), UDGOM, Tri-County Health Dept.

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 4,000'					
	Green River @	0,923'			
	Top of Birds Nest Water @	1201'			
	Mahogany @	1,545'			
	Preset ff/ GL @	1,800' MD			
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD					
Open hole logging program ff/ TD - surf csg					
	Wasatch @	4,000'	7-7/8"	4-1/2", 11.5#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.2 ppg
	Mverde @	6,514'			
	MVU2 @	7,533'			
	MVL1 @	8,147'			
	TD @	8,590'			Max anticipated Mud required 11.2 ppg





# **KERR-McGEE OIL & GAS ONSHORE LP** **DRILLING PROGRAM**

## **CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 1800	32.30	H-40	STC	7780	1.63	4.99
PRODUCTION	4-1/2"	0 to 8590	11.60	I-80	LTC	2.50	1.27	2.31

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))  
2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)  
(Burst Assumptions: TD = 11.2 ppg) .22 psi/ft = gradient for partially evac wellbore  
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)  
MASP 3113 psi

~~2) Burst SP 14" CW BVC is much stronger than formation at 2000' EMW @ 2000' for 2270# is 2418 ppg or 1113 psi~~

## **CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 15% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	300	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,500'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	380	60%	11.00	3.38
	TAIL	5,090'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1420	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## **FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## **ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & four sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

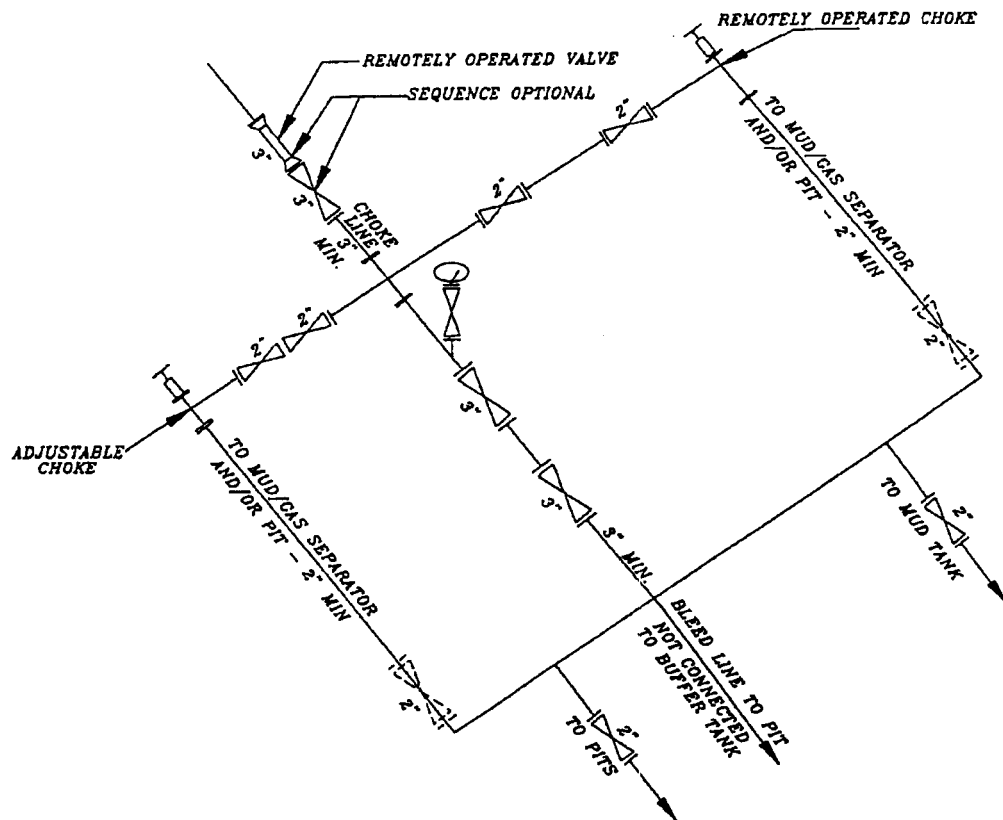
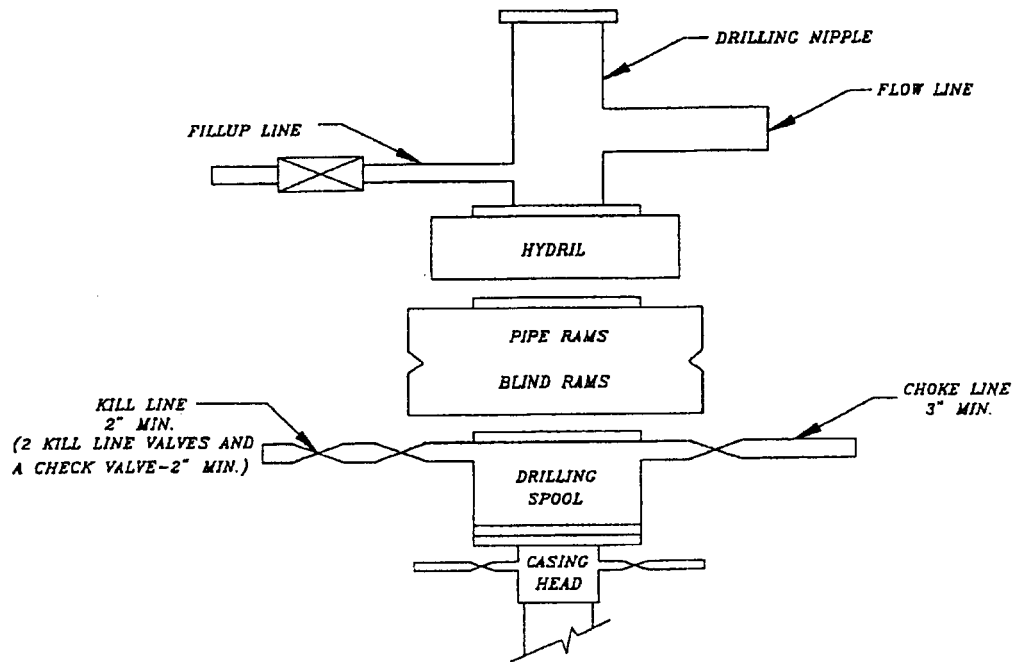
Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: \_\_\_\_\_  
Brad Laney  
DRILLING SUPERINTENDENT: \_\_\_\_\_  
Randy Bayne

DATE: \_\_\_\_\_  
DATE: \_\_\_\_\_



# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





**BITTER CREEK 1122-6E  
SW/NW LOT.5, SEC. 6, T11S, R22E  
UINTAH COUNTY, UTAH  
UTU-25880**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Directions to the proposed location are attached.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

Approximately 0.15 +/- miles of access road is proposed. Refer to Topo Map B for the access road.

The access road will be crowned (2 to 3%), ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free-flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing or shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.



4. **Location of Existing & Proposed Facilities & Pipelines:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5 Y 6/2) as determined during the on-site inspection.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

**Variations to Best Management Practices (BMP) Requests:**

A 30' of Rights-of-Way will be required for approximately 3850' +/- of 6" steel pipeline shall be installed to the proposed location from the Tie-in point from the 1122-6P (Lease #UTU-71417), the pipeline shall connect at the 1122-6L (Lease #UTU-25880) pipeline. Refer to Topo Map D for pipeline placement.

A 30' of Rights-of-Way will be required for approximately 5050' +/- of 6" steel pipeline shall be installed to the proposed location from the Tie-in point from the 1122-6P (Lease #UTU-71417), the pipeline shall run back onto (Lease #UTU-25880), to tie-in to the proposed location. Refer to Topo Map D for pipeline placement.

The pipeline will be butt-welded together. The pipeline shall be installed on surface within access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.



**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec.32, T4S,R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR



355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

*Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. (Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **Plans for Reclamation of the Surface:**

*Producing Location:*

**Interim Surface Reclamation Plan:**

When the pit is backfilled within 180 days of well completion, the operator shall spread the top soil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.



Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for drilled seeds are:

Galletta Grass	10 lbs.
Needle and Thread Grass	10 lbs

The operator shall call BLM for the seed mixture when final reclamation occurs.

**11. Surface Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435) 781-4400



**12. STIPULATIONS:****WILDLIFE STIPULATIONS:**

**ANTELOPE:** No drilling or construction from May 15<sup>th</sup> – June 20<sup>th</sup>.

**SAGE GROUSE:** No drilling or construction from March 1<sup>st</sup> – June 30<sup>th</sup>.

**GOLDEN EAGLE:** No drilling or construction from February 1<sup>st</sup> – July 15<sup>th</sup>.

**13. Other Information:**

A Class III Archaeological Survey has been performed the report will be submitted when the report becomes available.

The Paleontological Reconnaissance Survey has been performed will be submitted when report becomes available.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance. The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

**13. Lessee's or Operators's Representative & Certification:**

Sheila Upchego  
Senior Land Admin Specialist  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7024

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Westport Oil & Gas Company agrees to be responsible under the terms and the conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for the lease activities is being provided by BLM Nationwide Bond #WYB000291.



I hereby certify that the proposed drill site and access route has been inspected and that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Sheila Upchego

October 30, 2007

Date



**Kerr-McGee Oil & Gas Onshore LP**  
**BITTER CREEK #1122-6E**  
**SECTION 6, T11S, R22E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.7 TO THE BEGINNING OF THE PROPOSED ACCESS TO THE #1122-6E TO THE NORTHEAST; PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.25 MILES.



# Kerr-McGee Oil & Gas Onshore LP

## BITTER CREEK #1122-6E

LOCATED IN UINTAH COUNTY, UTAH

SECTION 6, T11S, R22E, S.L.B.&M.

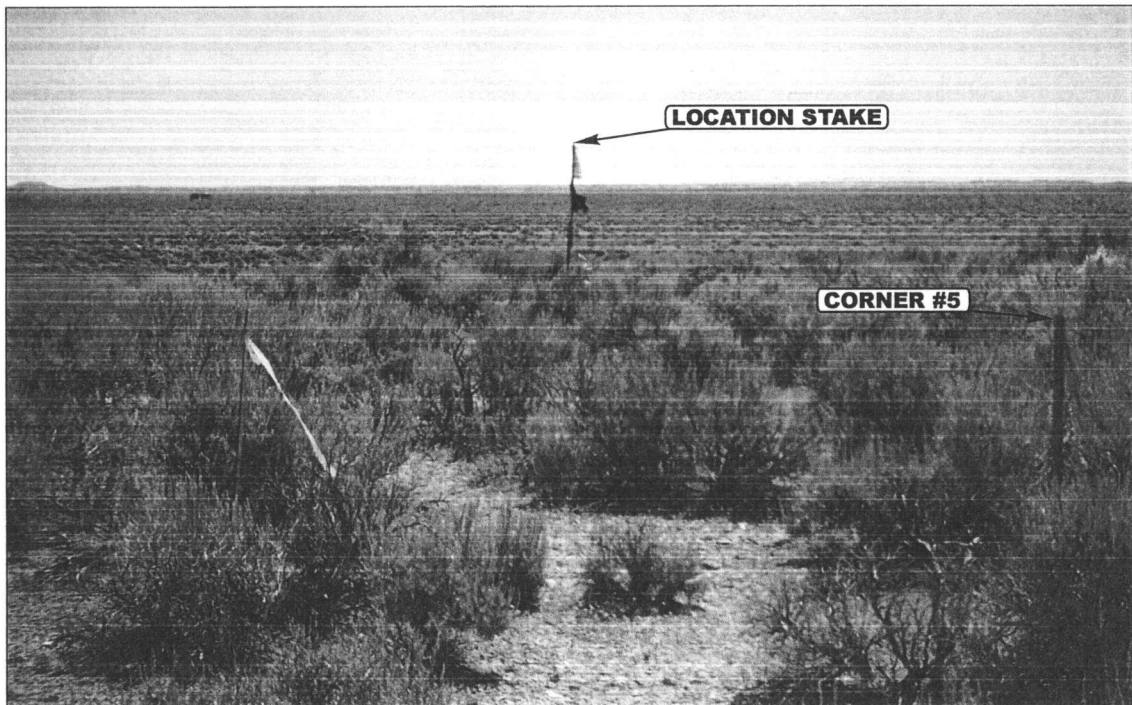


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY

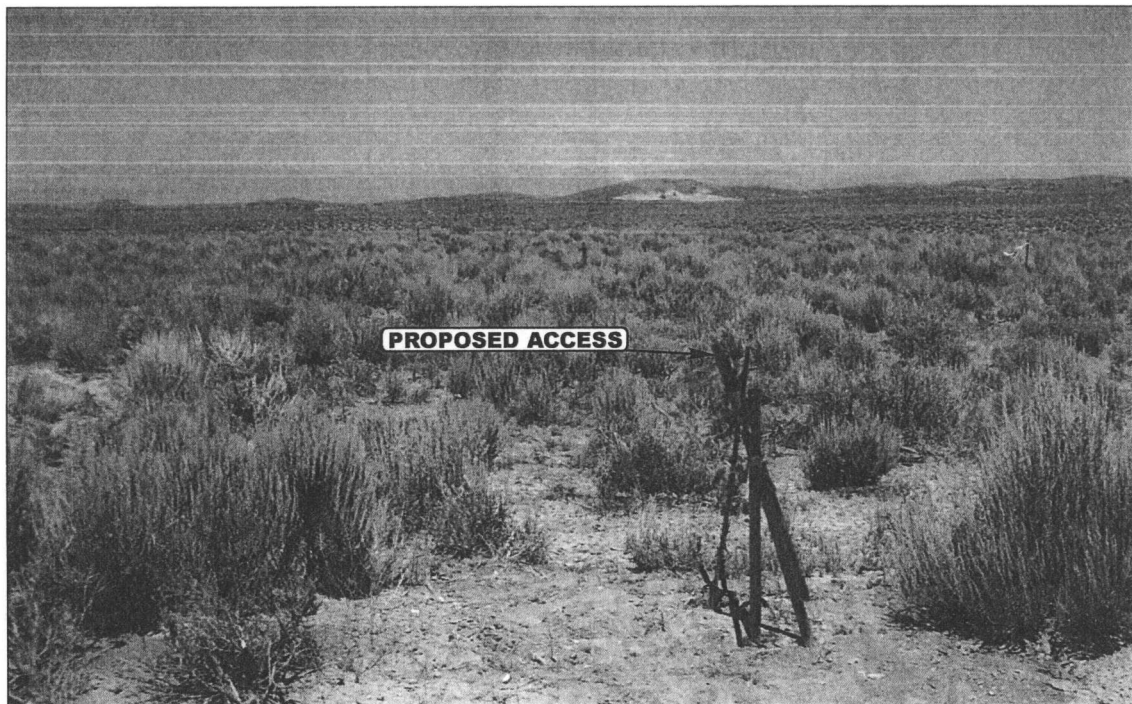


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS**

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

06 28 07  
MONTH DAY YEAR

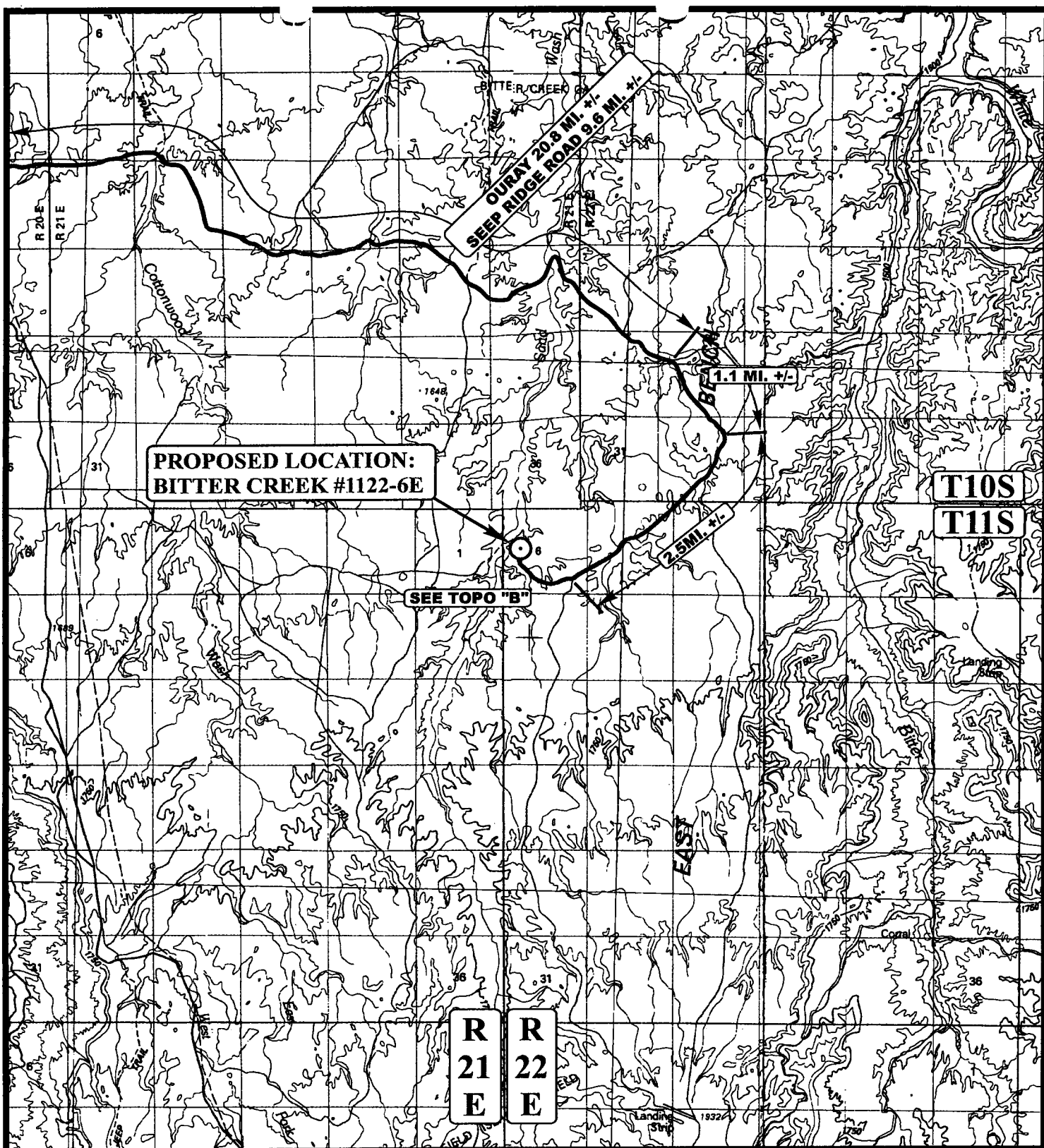
PHOTO

TAKEN BY: J.M.

DRAWN BY: A.A.

REVISED: 00-00-00





# LEGEND:

○ PROPOSED LOCATION

N



Kerr-McGee Oil & Gas Onshore LP

BITTER CREEK #1122-6E  
SECTION 6, T11S, R22E, S.L.B.&M.  
2343' FNL 1070' FWL



Utah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

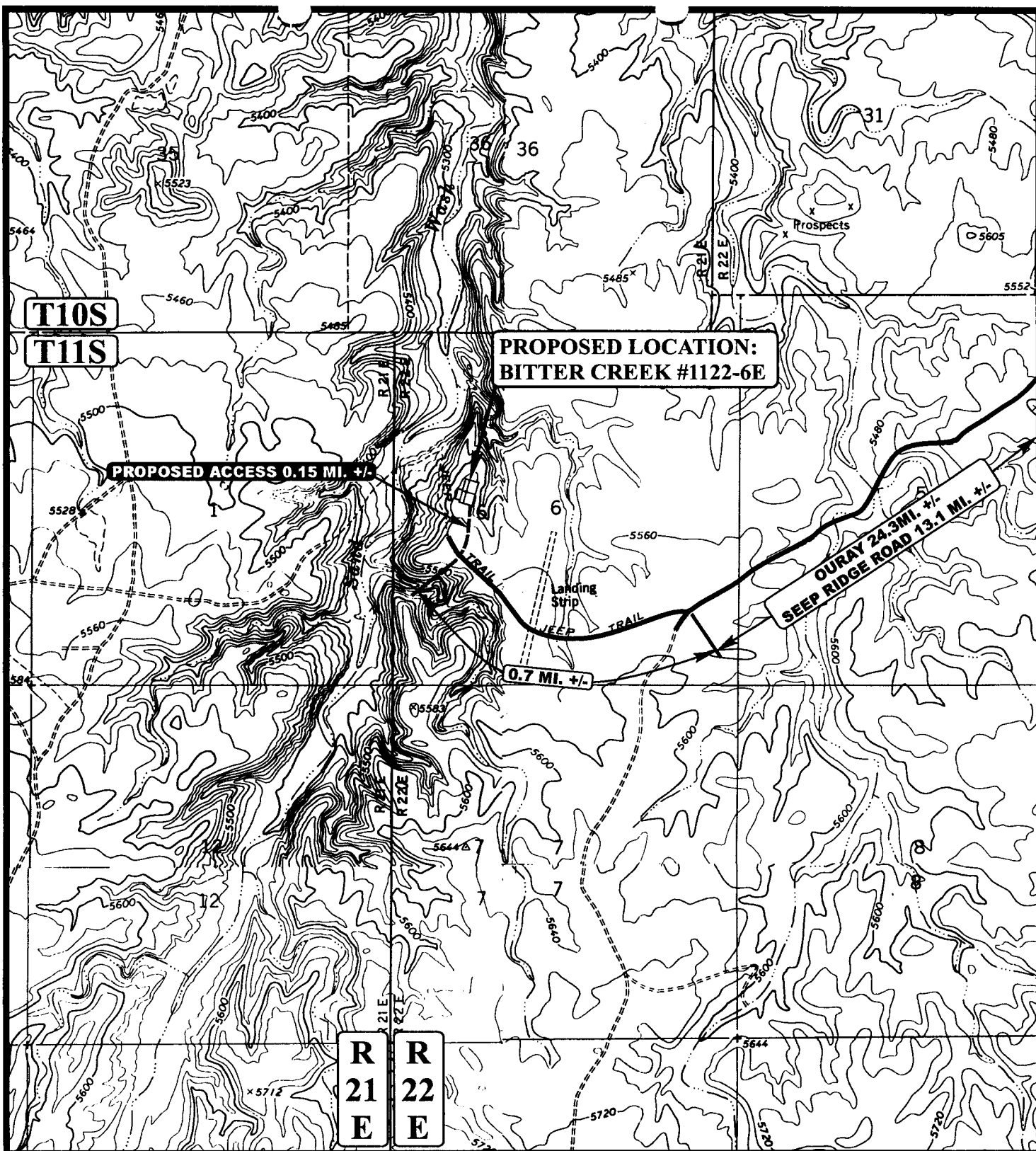
TOPOGRAPHIC  
MAP

06 28 07  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: A.A. REVISED: 00-00-00







# **LEGEND:**

————— EXISTING ROAD  
- - - - - PROPOSED ACCESS ROAD

**Kerr-McGee Oil & Gas Onshore LP**

**BITTER CREEK #1122-6E**  
**SECTION 6, T11S, R22E, S.L.B.&M.**  
**2343' FNL 1070' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



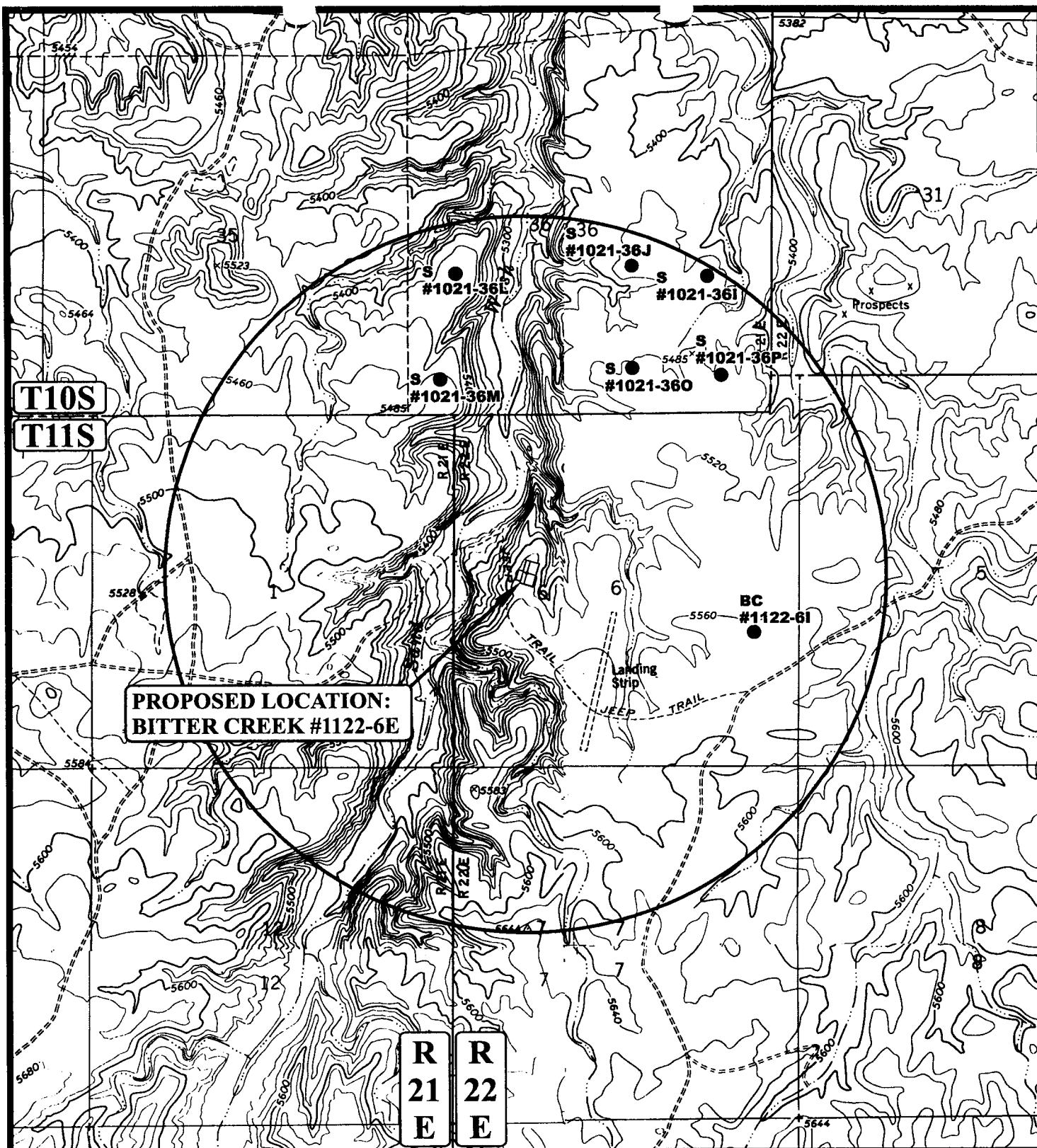
**TOPOGRAPHIC  
MAP**

**06 28 07**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00

**B**  
**TOPO**





# LEGEND:

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



Kerr-McGee Oil & Gas Onshore LP

**BITTER CREEK #1122-6E**  
**SECTION 6, T11S, R22E, S.L.B.&M.**  
**2343' FNL 1070' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

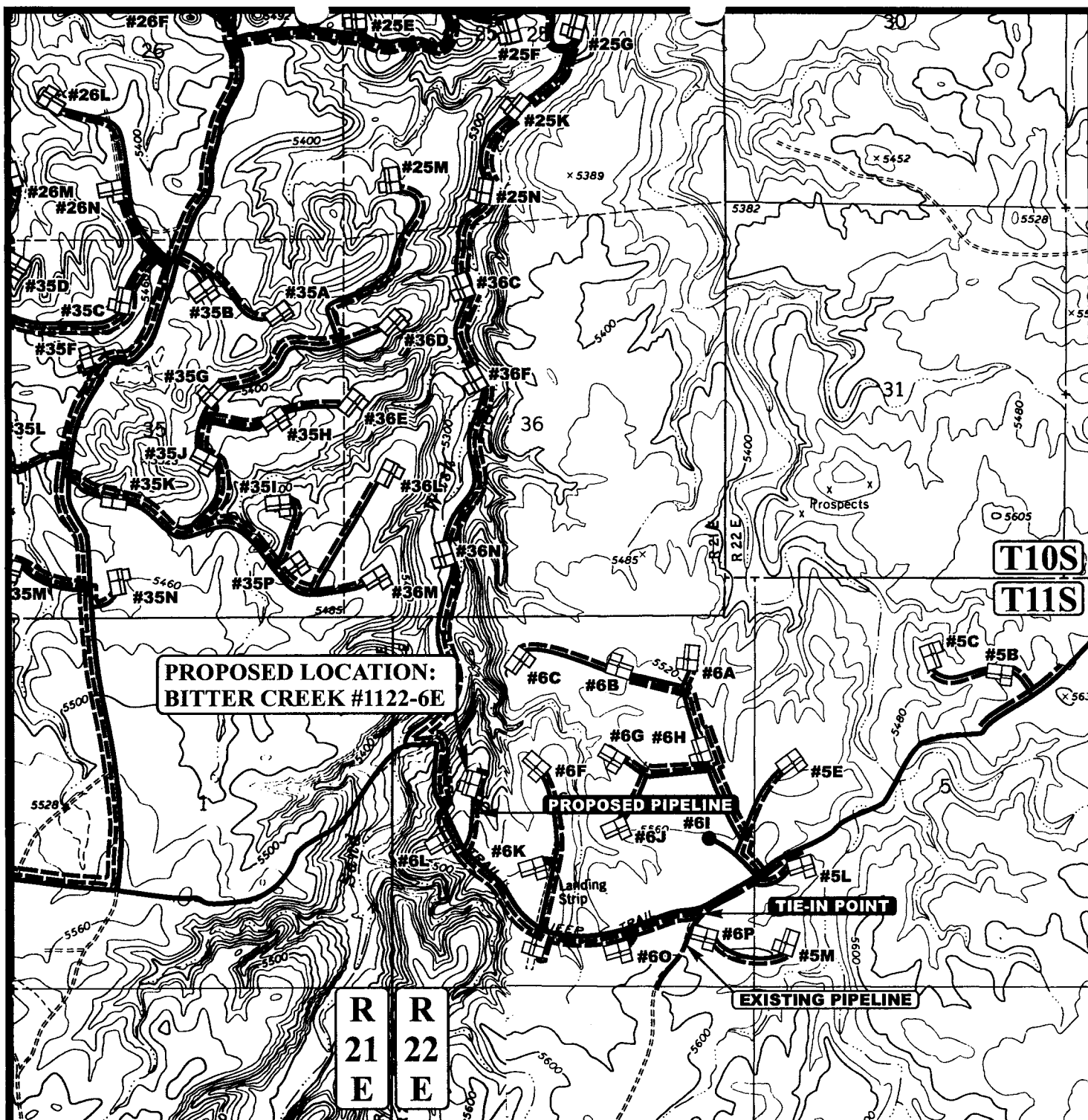
**TOPOGRAPHIC**  
**MAP**

**06** **28** **07**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 00-00-00







APPROXIMATE TOTAL 6" PIPELINE DISTANCE = 3,850' +/-

APPROXIMATE TOTAL 4" PIPELINE DISTANCE = 5,050' +/-

# LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP

BITTER CREEK #1122-6E  
SECTION 6, T11S, R22E, S.L.B.&M.  
2343' FNL 1070' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC MAP  
SCALE: 1" = 2000' DRAWN BY: A.A. REVISED: 10-10-07C.P.





**Kerr-McGee Oil and Gas Onshore LP**  
**BITTER CREEK #1122-6E**  
PIPELINE ALIGNMENT  
LOCATED IN UINTAH COUNTY, UTAH  
SECTION 6, T11S, R22E, S.L.B.&M.

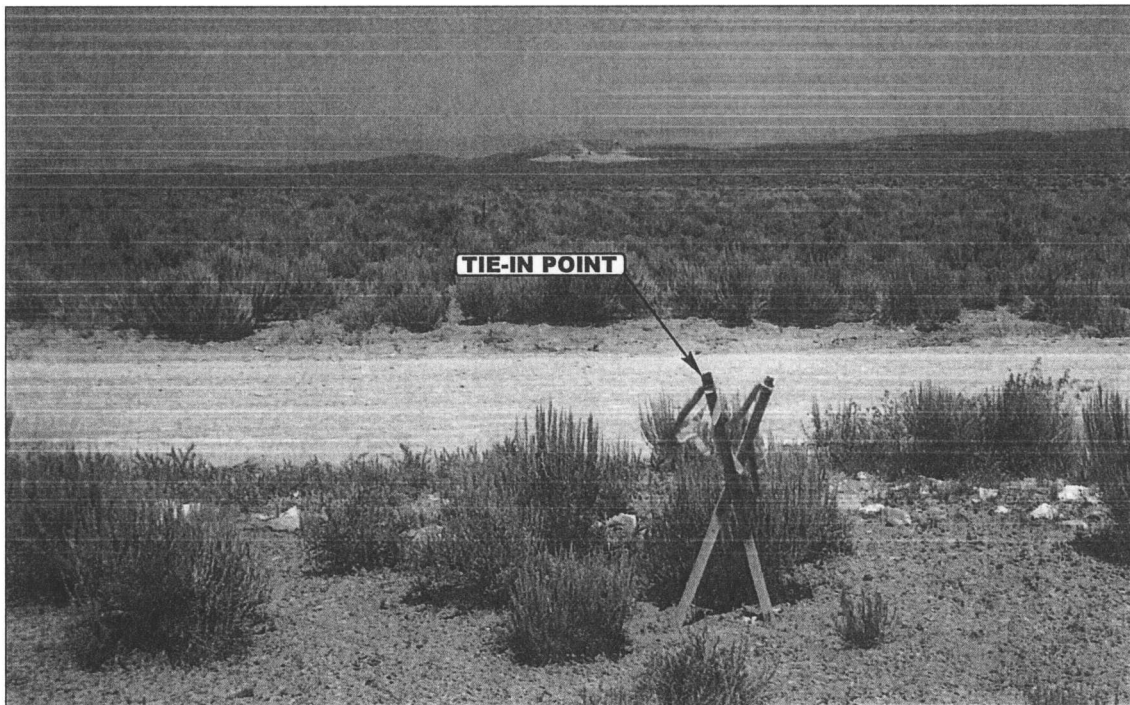


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

06 28 07  
MONTH DAY YEAR

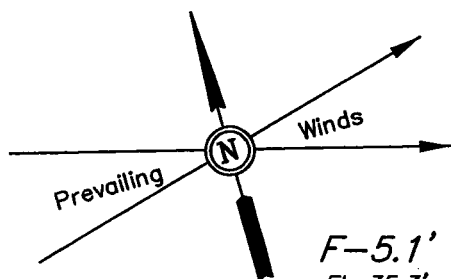
PHOTO

TAKEN BY: J.M. DRAWN BY: A.A. REVISED: 00-00-00



**FIGURE #1**

2343' FNL 1070' FWL



F-5.1'  
El. 35.3'

Approx.  
Toe of  
Fill Slope

*F-6.7'*  
*El. 33.7'*

SCALE: 1" = 50'  
DATE: 07-09-07  
Drawn By: C.H.

F-4.1'  
El. 36.3'

*Round Corners  
as Needed*

**NOTE:**

Flare Pit is to be located  
a min. of 100' from the  
Well Head. backfill.

Reserve Pit Backfill  
Spoils Stockpile

El. 37.9'  
C-7.5'  
(btm. pit)

**D**  $C-0.5'$   
 $El. 40.9'$

C-0.9  
El. 41.3'

Sta. 1+70


F-3.2'  
El. 37.2'

**15' WIDE BENCH/DIKE**

**RESERVE PITS**  
(10' Deep)

SLOPE 1 1/2 : 1

El. 37.9'  
C-7.5  
(btm. pit) \

30'  C-4.4'  
El. 44.8'

Sta. 0+00

**C-0.1'**  
**FL. 40.5'**

**Proposed Access Road**

**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 5541.3'

FINISHED GRADE ELEV. AT LOC. STAKE = 5540.4'

**UINTAH ENGINEERING & LAND SURVEYING**  
86 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# Kerr-McGee Oil & Gas Onshore LP

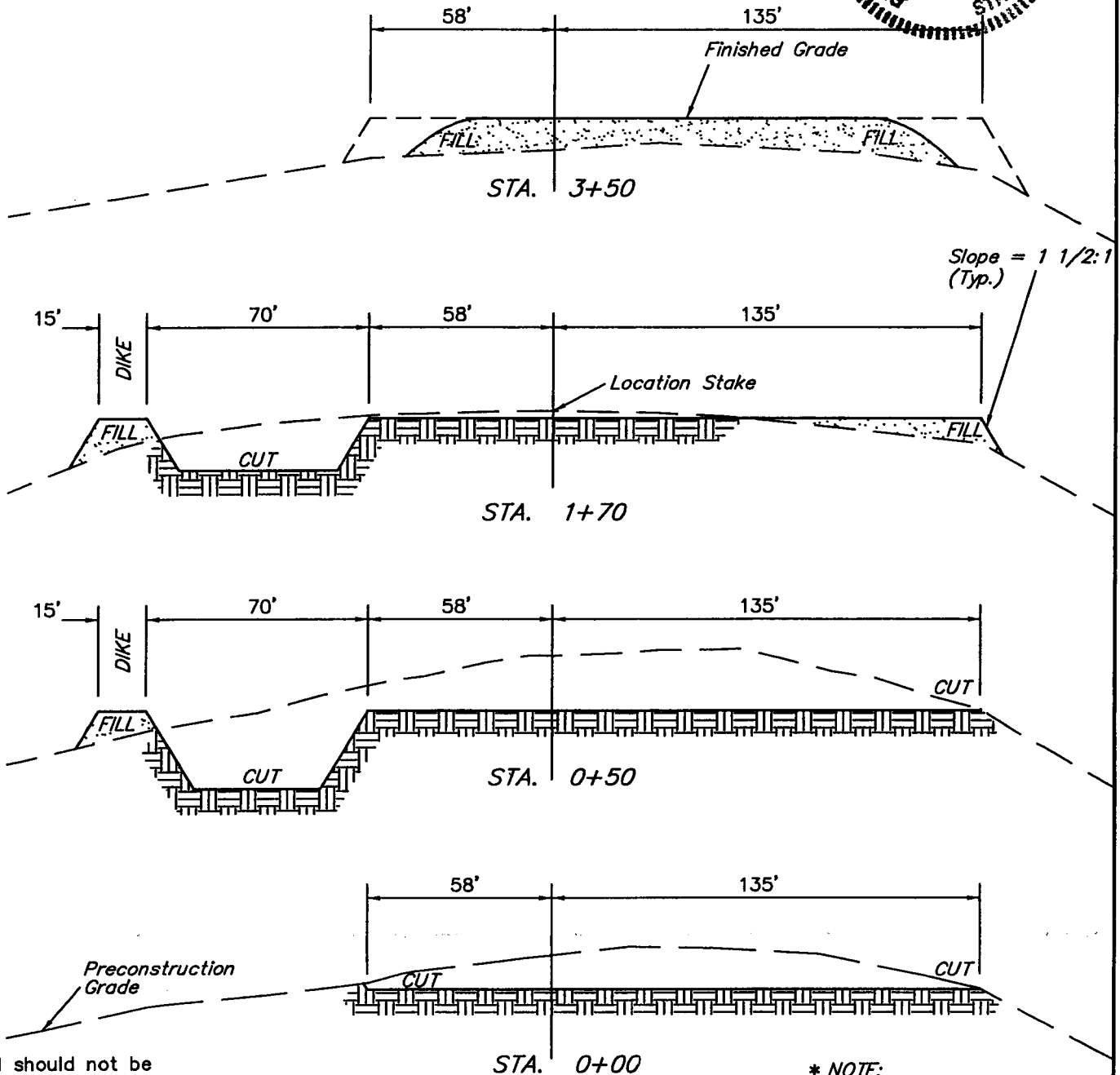
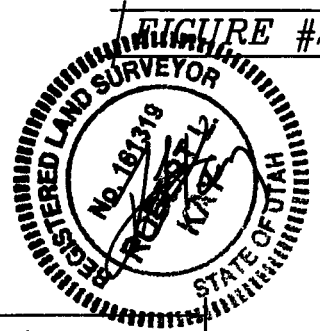
FIGURE #2

## TYPICAL CROSS SECTIONS FOR

BITTER CREEK #1122-6E  
SECTION 6, T11S, R22E, S.L.B.&M.  
2343' FNL 1070' FWL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 07-09-07  
Drawn By: C.H.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 1,720 Cu. Yds.  
Remaining Location = 6,200 Cu. Yds.  
  
TOTAL CUT = 7,920 CU.YDS.  
FILL = 4,810 CU.YDS.

EXCESS MATERIAL = 3,110 Cu. Yds.  
Topsoil & Pit Backfill = 3,110 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/02/2007

API NO. ASSIGNED: 43-047-39760

WELL NAME: BITTER CREEK 1122-6E

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 435-781-7024

CONTACT: SHEILA UPCHEGO

PROPOSED LOCATION:

SWNW 06 110S 220E

SURFACE: 2343 FNL 1070 FWL

BOTTOM: 2343 FNL 1070 FWL

COUNTY: UINTAH

LATITUDE: 39.89067 LONGITUDE: -109.5020

UTM SURF EASTINGS: 628077 NORTHINGS: 4416487

FIELD NAME: BITTER CREEK ( 547 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-25880

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000291 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

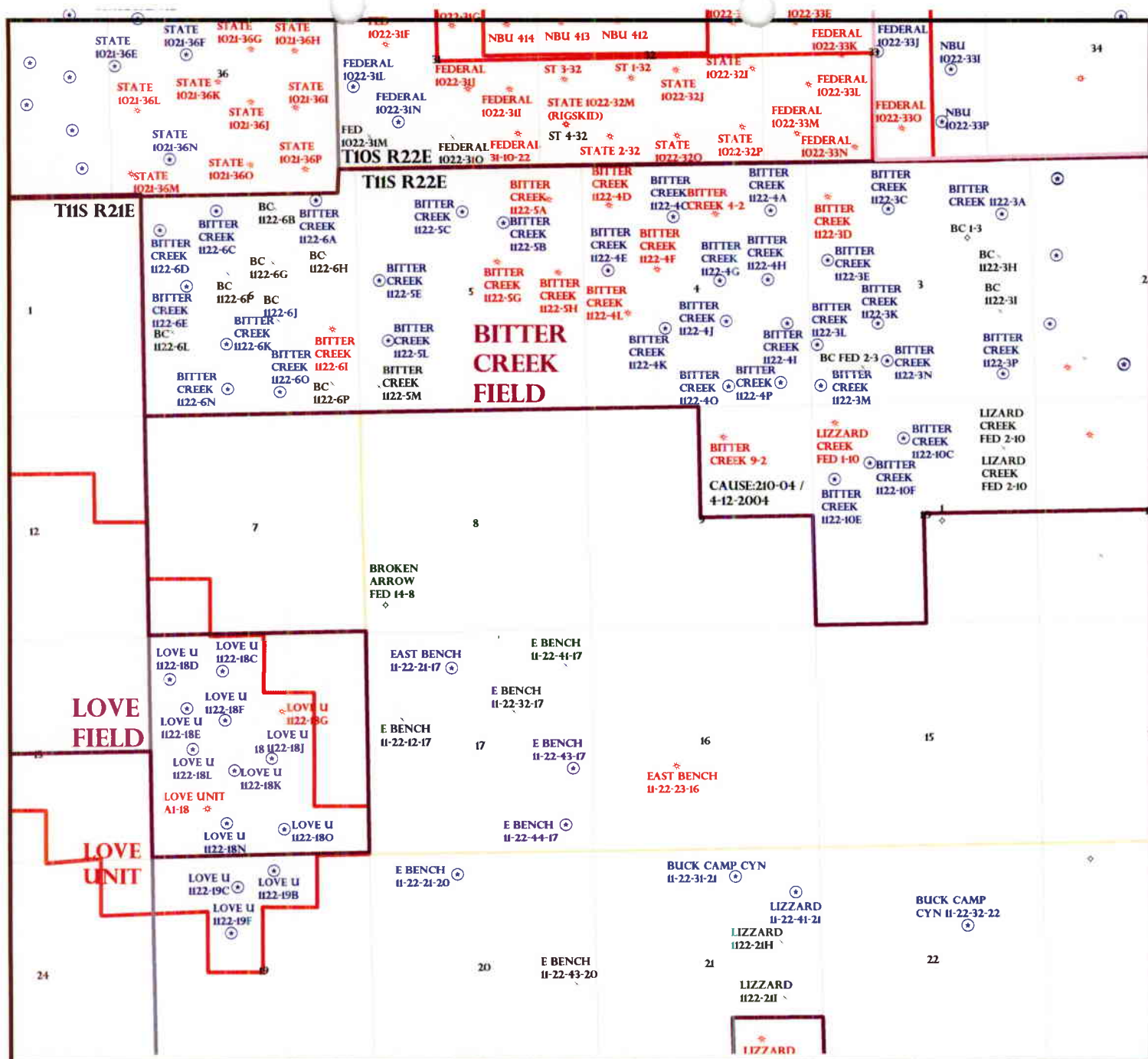
LOCATION AND SITING:

       R649-2-3.  
Unit: \_\_\_\_\_  
       R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
       R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 210-04  
Eff Date: 4-12-04  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
       R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: 1. Leasehold Agreement





OPERATOR: KERR MCGEE O&G (N2995)

SEC: 3,4,6,10 T.11S R. 22E

FIELD: BITTER CREEK (547)

COUNTY: UTAH

CAUSE:210-04 / 4-12-2004

**Field Status**

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**Unit Status**

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 07-NOVEMBER-2007





JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

November 7, 2007

Kerr McGee Oil & Gas Onshore LP  
1368 S 1200 E  
Vernal, UT 84078

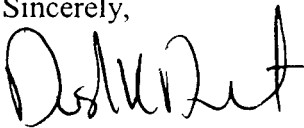
Re: Bitter Creek 1122-6E Well, 2343' FNL, 1070' FWL, SW NW, Sec. 6, T. 11 South,  
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-39760.

Sincerely,

  
(for) Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office



**Operator:** Kerr McGee Oil & Gas Onshore LP

**Well Name & Number** Bitter Creek 1122-6E

**API Number:** 43-047-39760

**Lease:** UTU-25880

**Location:** SW NW                      **Sec.** 6                      **T.** 11 South                      **R.** 22 East

### **Conditions of Approval**

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

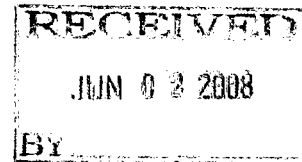
4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.





Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779

May 28, 2008



Robert L. Bayless, Producer LLC  
C. Jay Muñoz  
621 17<sup>th</sup> Street, Suite 2300  
Denver, CO 80293

Re: Request for Consent to Exception Well Location  
BITTER CREEK 1122-6E Well  
Township 11 South, Range 22 East  
Section 6: SWNW, Lot 5  
2,343' FNL, 1,070' FWL  
Uintah County, Utah

43-047-39760

Dear Mrs. Muñoz:

Kerr-McGee Oil & Gas Onshore LP has staked and proposes to drill the Bitter Creek 1122-6E well, an 8,550' Wasatch/Mesaverde formation test, located 2,343' FNL, 1,070' FWL (SWNW, Lot5) of Section 6-T11S-R22E, SLM, Uintah County, Utah. Enclosed is a copy of the survey plat along with a copy of a topo map depicting the proposed location of the subject well.

The State of Utah Board of Oil, Gas and Mining's Order in Bitter Creek 210-04 provides for termination of 320-acre spacing for Sections 1-17-11S-22E (now under Rule 649-3-2) for the development and production of gas and associated hydrocarbons from the Wasatch/Mesaverde formation and prescribes that the location of the permitted well in each drilling unit shall not be less than 460' from the exterior boundary of such drilling unit.

Since the location of the subject well is not in compliance with this well siting order, Kerr-McGee Oil & Gas Onshore LP will request the Bureau of Land Management's administrative approval of such location as an exception location in accordance with General Rule R649-3-3. This rule requires Kerr-McGee Oil & Gas Onshore LP to obtain written consent from all owners of directly or diagonally offsetting drilling units.

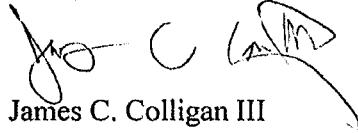
If Robert L. Bayless, Producer LLC has no objections to Kerr-McGee Oil & Gas Onshore LP's drilling the subject well at the above-described exception location, Kerr-McGee Oil & Gas Onshore LP respectfully requests you indicate your approval by executing in the space provided below and returning two (2) originally executed copies to my attention.



If you have any questions or require any additional information, please do not hesitate to call the undersigned at 720-929-6698.

Sincerely,

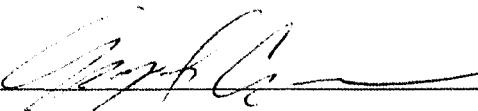
**Kerr-McGee Oil & Gas Onshore LP**



James C. Colligan III  
Landman

Robert L. Bayless, Producer LLC consents to the above described exception location this

26<sup>th</sup> day of June, 2008.

By: 

Name: George F. Cosge II

Title: Geologist



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED  
VERNAL FIELD OFFICE  
2007 OCT 31 PM 3:13  
DEPT. OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT


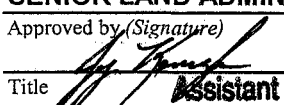
FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER			5. Lease Serial No. <b>UTU-25880</b>		
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone			6. If Indian, Allottee or Tribe Name		
2. Name of Operator <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>			7. If Unit or CA Agreement, Name and No.		
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>		3b. Phone No. (include area code) <b>(435) 781-7024</b>	8. Lease Name and Well No. <b>BITTER CREEK 1122-6E</b>		
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>SW/NW 2343'FNL, 1070'FWL (LOT 5)</b> At proposed prod. Zone			9. API Well No. <b>43-047-39760</b>		
14. Distance in miles and direction from nearest town or post office* <b>38.25 +/- MILES SOUTHEAST OF OURAY, UTAH</b>			10. Field and Pool, or Exploratory <b>UNDESIGNATED</b>		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>1070'</b>		16. No. of Acres in lease <b>614.64</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC. 6, T11S, R22E</b>		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>		19. Proposed Depth <b>8590'</b>	12. County or Parish <b>UINTAH</b>		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5541'GL</b>		20. BLM/BIA Bond No. on file <b>BOND NO. WYB000291</b>	13. State <b>UTAH</b>		
22. Approximate date work will start*			23. Estimated duration		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office. | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature 	Name (Printed/Typed) <b>SHEILA UPCHEGO</b>	Date <b>10/30/2007</b>
Title <b>SENIOR LAND ADMIN SPECIALIST</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>TERRY KENNEL</b>	Date <b>7-2-2008</b>
Title <b>Assistant Field Manager</b>		
Office <b>VERNAL FIELD OFFICE</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED  
JUL 16 2008

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

NOS: 07/17/2007  
07002439A

UDOGM





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr-McGee Oil & Gas Onshore, LP  
Well No: Bitter Creek 1122-6E  
API No: 43-047-39760

Location: SWNW Lot 5, Sec 6, T11S, R22E  
Lease No: UTU-25880  
Agreement: N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access roads will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- All secondary drainages shall be rerouted around the location, as needed.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 16 ml or greater liner and doubled felted prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.



- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Galleta grass	Hilaria jamesii	10lbs/acre
Indian rice grass	Oryzopsis hymenoides	10lbs/acre
Needle & Thread grass	Stipa comata	10lbs/acre

All pounds are in pure live seed.

- Rates are set for drill seeding; double the rate if broadcasting.
  - Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds following the operator submitted PUP plan provided the BLM before this project construction begins.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit and posted/marked topsoil. When the reserve pit is closed, it shall be contoured and the topsoil spread, and the area shall be seeded in the same manner as the location topsoil to comply with natural topography.
- Once the location is plugged and abandoned, it shall be contoured to natural topography, topsoil shall be spread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. Seeding guidelines will be provided by the BLM to the operator with prescribed seeding recommendations.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- The habitat will be protected (no or little development) within 2 miles (3.2 km) of active leks.
  - a. All human disturbances will be minimized within sight or 0.3 mile (0.5 km) of active leks during breeding season during early morning or evening when birds are likely to be found on the leks; and
  - b. Avoid constructing above ground powerlines, or other tall structures within 2 miles of seasonal habitat.
- Well pads will be located out of the line of sight/hearing at the leks by considering topographical or vegetative screening features as well as centralized tank batteries, use of low profile tanks, and pointing exhaust from heater-treater to the north and northeast at proposed locations.



- a. Proper placement of well locations can reduce the impact out of hearing >10 dBA above natural ambient noise.
- Construction, drilling, completion and workover activities will not be allowed within two miles of active leks from March 1 through June 15.
  - Other structures such as fences, poles, utilities, will not be constructed within the two mile buffer of active leks, unless the proposed project is reviewed by BLM and UDWR and a waiver issued for this measure on an approved design.
  - Operational activities (trucks driving to well locations, well, road, pipeline surveys, pipeline maintenance etc.) will be minimized March 1 through June 15 one hour prior to sunrise to three hours after sunrise.
  - No construction, drilling, completion activities will be allowed from May 15-June 20 to help protect pronghorn kidding in the area.
  - Golden eagle nesting a timing restriction from February 1 through July 30 will be applied to the following well locations:
    - Bitter Creek Well 1121 6K Location NESW Section 6, T 11 S R22 E.
    - Bitter Creek Well 1121 6E Location SWNW Section 6, T 11 S R22 E.
    - Bitter Creek Well 1121 6D Location NWNW Section 6, T 11 S R22 E.
  - Notify the Authorized Officer 48 hours prior to surface disturbing activities.



**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A mist system is approved in lieu of deduster equipment. All other equipment for air/gas drilling shall meet specifications in Onshore Order #2, III. Requirements, E. Special Drilling Operations.
- A formation integrity test shall be performed at the surface casing shoe before drilling more than twenty feet.
- Logging program: Gamma Ray shall be run from TD to surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.



- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$  Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or



data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-25880
2. NAME OF OPERATOR: Kerr-McGee Oil & Gas Onshore, LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217-3779		7. UNIT or CA AGREEMENT NAME: N/A
PHONE NUMBER: (720) 929-6226		8. WELL NAME and NUMBER: Bitter Creek 1122-6E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2343' FNL & 1070' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 6 11S 22E		9. API NUMBER: 4304739760
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Natural Buttes Field
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, LP, respectfully requests a one year extension for this APD in order to complete drilling operations. The Utah Division of Oil, Gas, and Mining initially approved this APD on 11/07/2007.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 11-03-08  
By: [Signature]

NAME (PLEASE PRINT) <u>Kevin McIntyre</u>	TITLE <u>Regulatory Analyst I</u>
SIGNATURE <u>[Signature]</u>	DATE <u>10/28/2008</u>

(This space for State use only)

COPY SENT TO OPERATOR

Date: 11-10-2008

Initials: KS

(See Instructions on Reverse Side)

RECEIVED

OCT 30 2008

DIV. OF OIL, GAS & MINING



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304739760  
**Well Name:** Bitter Creek 1122-6E  
**Location:** SWNW 2343' FNL & 1070' FWL Sec. 6, T11S, R22E  
**Company Permit Issued to:** Kerr-McGee Oil & Gas Onshore, LP  
**Date Original Permit Issued:** 11/7/2007

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐

  
Signature

10/28/2008  
Date

Title: Regulatory Analyst I

Representing: Kerr-McGee Oil & Gas Onshore, LP

**RECEIVED**  
**OCT 30 2008**  
DIV. OF OIL, GAS & MINING



## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: BITTER CREEK 1122-6E

Api No: 43-047-39760 Lease Type: FEDERAL

Section 06 Township 11S Range 22E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

### **SPUDDED:**

Date 11/11/08

Time 9:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 11/11/08 Signed CHD



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS  
*Do not use this form for proposals to drill or reenter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.  
**UTU-25880**  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2343' FNL, 1070' FWL LOT 3  
SW/NW, SEC.6, T11S-R22E**

8. Well Name and No.  
**BITTER CREEK 1122-6E**

9. API Well No.

**4304739760**

10. Field and Pool, or Exploratory Area

**UNDESIGNATED**

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>WELL SPUD</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7#  
SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 11/11/2008 AT 0900 HRS.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**SHEILA UPCHEGO**

Title

**REGULATORY ANALYST**

Signature

Date

**November 11, 2008**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**RECEIVED**

**NOV 12 2008**

**DIV. OF OIL, GAS & MINING**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
***Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.***

5. Lease Serial No.  
UTU-25880

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.  
BITTER CREEK 1122-6E

2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE LP

9. API Well No.  
4304739760

3a. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. (include area code)  
435.781.7024

10. Field and Pool or Exploratory Area  
UNDESIGNATED

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW/NW, LOT. 5, SEC. 6, T11S, R22E 2343'FNL, 1070'FWL

11. Country or Parish, State  
UINTAH COUNTY, UTAH

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SET SURFACE
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CSG
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

MIRU PROPETRO AIR RIG ON 11/21/2008. DRILLED 12 1/4" SURFACE HOLE TO 1870'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/150 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM LITE II @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 20 +/- BBL LEAD CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/160 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE, GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

RECEIVED

DEC 08 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 12/01/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

5. Lease Serial No. UTU25880
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. BITTER CREEK 1122-6E
9. API Well No. 43-047-39760
10. Field and Pool, or Exploratory UNDESIGNATED
11. County or Parish, and State UINTAH, COUNTY, UT

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE	
Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com	
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T11S R22E SWNW 2343FNL 1070FWL	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

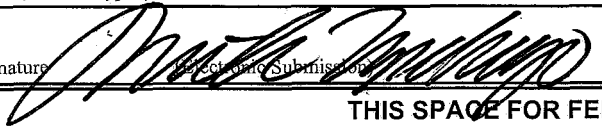
FINISHED DRILLING FROM 1870' TO 8745' ON 12/09/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/305 SX PREM LITE II @11.8 PPG 2.52 YIELD. TAILED CMT W/1125 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACED W/65 BBLS BUMPED PLUG W/3029 PSI FLOATS HELD 15 BBLS LEAD TO PIT SET PACK OF AND TEST NIPPLE DOWN BOPE & CLEAN TANKS.

RELEASED PIONEER RIG 69 ON 12/10/2008 AT 0000 HRS.

**RECEIVED**

DEC 18 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Electronic Submission #65494 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal		
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS	
Signature 	Date 12/11/2008	
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU25880
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com		6. If Indian, Allottee or Tribe Name
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T11S R22E SWNW 2343FNL 1070FWL		8. Well Name and No. BITTER CREEK 1122-6E
		9. API Well No. 43-047-39760
		10. Field and Pool, or Exploratory UNDESIGNATED
		11. County or Parish, and State UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Subsurface Commingling
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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THE OPERATOR REQUESTS AUTHORIZATION TO COMMINGLE THE SUBJECT WELL LOCATION. THE WELL IS A NEW WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE NEWLY WASATCH AND MESAYERDE FORMATION.

PLEASE REFER TO THE ATTACHED COMPLETION PROCEDURE.

**COPY SENT TO OPERATOR**

Date: 2-5-2009

Initials: KS

14. I hereby certify that the foregoing is true and correct. Electronic Submission #66241 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal	
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS
Signature <i>[Signature]</i> (Electronic Submission)	Date 01/12/2009
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By <i>[Signature]</i>	Title Pet-Eng. Date 2/4/09
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office Dogm Federal Approval Of This Action Is Necessary
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*  
\* Case 210-04

**RECEIVED**

JAN 15 2009

DIV. OF OIL, GAS & MINING





Kerr-McGee Oil & Gas Onshore L.P.  
PO Box 173779  
DENVER, CO 80217-3779

January 12, 2009

BLM  
AMF Lands and Minerals  
170 South 500 East  
Vernal, UT 84078

Attn: Jerry Kenzcka

Re: Notice of Commingling  
Bitter Creek 1122-6E  
Section 6: SWNW  
T11S-R22E  
Uintah County, Utah

Dear Jerry:

Pursuant to DOGM Rule 649-3-22 "Completion into Two or More Pool," please find enclosed a copy of the sundry to be submitted to DOGM for approval.

Unless you have objection to the commingling plan, no action is required on your part. If you do wish to object to the commingling plan, comments should be directed to:

DOGM  
Attn: Dustin Doucet  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

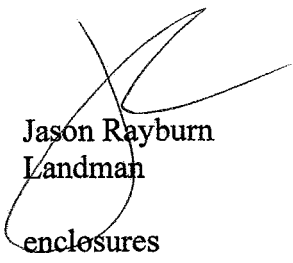
Objections will be accepted up to 15 days after Kerr-McGee's application is filed with the Division (R649-3-22.3.1).

Should you have any questions or concerns, please contact the undersigned at 720-929-6262.



Sincerely,

**KERR-McGEE OIL & GAS ONSHORE LP**



Jason Rayburn  
Landman

enclosures





Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
DENVER, CO 80217-3779

January 12, 2009

Mr. Dustin Doucet  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Bitter Creek 1122-6E  
SWNW Sec. 6, T11S-R22E  
API Well No. 4304739760  
Uintah County, Utah

Dear Dustin,

In accordance with R649-3-22, "Completion Into Two or More Pools", please be advised that there are no contiguous owners in oil and gas leases or in drilling units overlying the pool we intend to commingle to notify. As evidenced by the enclosed plat, Kerr-McGee Oil & Gas Onshore LP is the sole working interest owner in all contiguous leasehold for targeted formations.

Please let me know if anything further is required in order to approve the sundry previously submitted to you regarding the recompletion of the Bitter Creek 1122-6E. I have enclosed a copy of the sundry notice.

Thank you for your attention to our request.

Sincerely,  
**KERR-McGEE OIL & GAS ONSHORE LP**

Jason Rayburn  
Landman

enclosures

**RECEIVED**

**JAN 15 2009**

**DIV. OF OIL, GAS & MINING**



STATE OF UTAH )

) ss

COUNTY OF UINTAH )

AFFIDAVIT

Jason Rayburn, of lawful age, and being first duly sworn upon oath, deposes and says:

He is a Landman of Kerr-McGee Oil & Gas Onshore LP, of Denver, Colorado. Kerr-McGee Oil & Gas Onshore LP is the operator of the following described well:

**BITTER CREEK 1122-6E  
2343' FNL, 1070' FWL (SWNW)  
SECTION 6, T11S- R22E  
UINTAH COUNTY, UTAH**

Kerr-McGee Oil & Gas Onshore LP is the sole leasehold owner in the well and/or of all the contiguous oil and gas leases or drilling units overlying the pool.

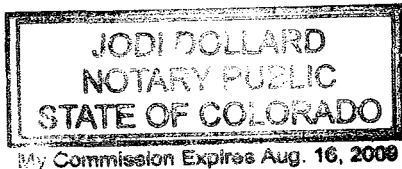
On the 12th day of January, 2009, he placed in the United States mail, with postage prepaid, copies of the attached Application for Commingling into two or more pools (formations) in one wellbore for the subject well.

Said envelopes which contained these instruments were addressed to the Utah Division of Oil, Gas & Mining and the Bureau of Land Management.

Further affiant saith not.

\_\_\_\_\_  
Jason Rayburn, Affiant

Subscribed and sworn before me this 12th day of January, 2009.

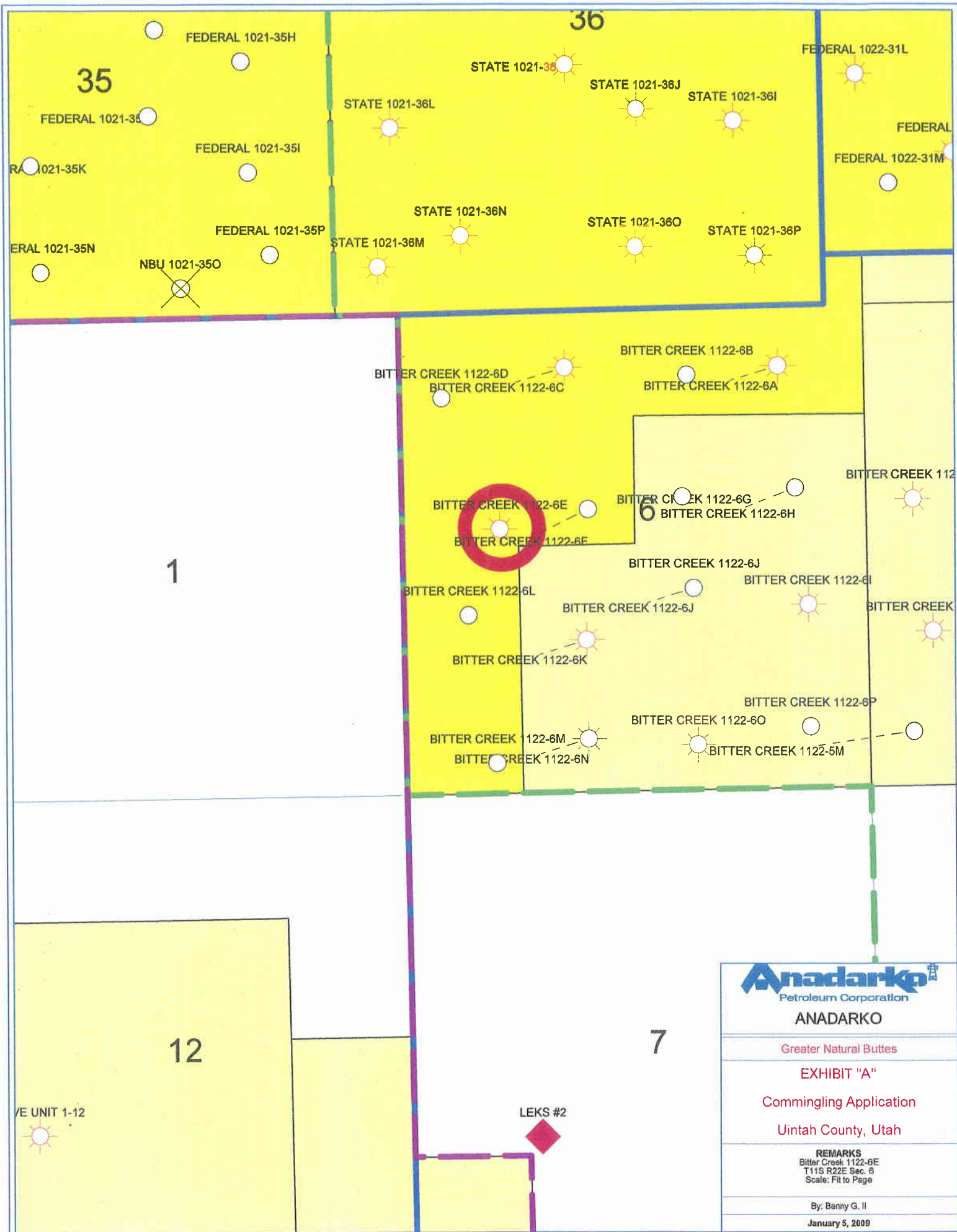


\_\_\_\_\_  
Notary Public

My Commission Expires:

Aug. 16, 2009







UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
UTU25880

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
BITTER CREEK 1122-6E9. API Well No.  
43-047-3976010. Field and Pool, or Exploratory  
UNDESIGNATED11. County or Parish, and State  
UINTAH COUNTY, UT**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-MCGEE OIL &amp; GAS ONSHORE

Contact: SHEILA UPCHEGO

Email: sheila.upchego@anadarko.com

3a. Address

1368 SOUTH 1200 EAST  
VERNAL, UT 84078

3b. Phone No. (include area code)

Ph: 435-781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T11S R22E SWNW 2343FNL 1070FWL

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Subsurface Commingling
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

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PLEASE REFER TO THE ATTACHED COMPLETION PROCEDURE.

**COPY SENT TO OPERATOR**Date: 1.27.2009Initials: KS

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #66241 verified by the BLM Well Information System  
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (Printed/Typed) SHEILA UPCHEGO

Title OPERATIONS

Signature

Date 01/12/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Pet. Eng.

Date

1/26/09

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DGM

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**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

\* Cause 210-04

**RECEIVED****JAN 20 2009**



**Name:** Bitter Creek 1122-6E  
**Location:** SW NW Sec 6 T11S R22E  
**Uintah County, UT**  
**Date:** 12/22/2008

**ELEVATIONS:** 5541 GL 5559 KB

**TOTAL DEPTH:** 8745 **PBTD:** 8687  
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 1856'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 8732'  
Marker Joint **4031-4048'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

920' Green River  
1195' Birds Nest  
1626' Mahogany  
4021' Wasatch  
6568' Mesaverde

**Estimated T.O.C. from CBL@**

**GENERAL:**

- A minimum of **23** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Bakers Induction-Density-Neutron log dated 12/09/2008
- **6** fracturing stages required for coverage.
- Procedure calls for 6 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.



- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages

#### **PROCEDURE:**

1. MIRU. NU and test BOP. RIH 3 7/8" mill and clean out to PBTD @ ~ 8687' if possible, or to 8300' at a minimum. Circulate hole clean with recycled water. POOH. Run CBL (if needed). Pressure test BOP and casing to **6200** psi.
2. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	8150	8153	3	9
MESAVERDE	8194	8198	3	12
MESAVERDE	8257	8260	3	9
MESAVERDE	8266	8269	3	9
3. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~8100' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
4. Set 8000 psi CBP at ~8060'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	7984	7986	3	6
MESAVERDE	8022	8030	4	32
5. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7934' and trickle 250gal 15%HCL w/ scale inhibitor in flush.
6. Set 8000 psi CBP at ~7750'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	7585	7587	3	6
MESAVERDE	7711	7720	4	36
7. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~7535'and trickle 250gal 15%HCL w/ scale inhibitor in flush.
8. Set 8000 psi CBP at ~7348'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	7298	7304	4	24
MESAVERDE	7314	7318	4	16
9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~7248' and trickle 250gal 15%HCL w/ scale inhibitor in flush.



10. Set 8000 psi CBP at ~7039'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	6904	6906	4	8
MESAVERDE	7001	7009	4	32

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6854' and trickle 250gal 15%HCL w/ scale inhibitor in flush

12. Set 8000 psi CBP at ~6450'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6410	6420	4	40

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6360' and flush only with recycled water. NOTE RATE IS 40 BPM

14. Set 8000 psi CBP at ~6360'.

15. TIH with 3 7/8" bit, pump off sub, SN and tubing.

16. Drill plugs and clean out to PBTD. Shear off bit and land tubing at ±7954' unless indicated otherwise by the well's behavior.

17. RDMO

**For design questions, please call**

**Curtis Caile, Denver, CO**

**(406)-490-2742 (Cell)**

**(720)-929-6194 (Office)**

**For field implementation questions, please call**

**Robert Miller, Vernal, UT**

**4350781 7041 (Office)**

**NOTES:**

The fluid was reduced to reach the job size desired for the Bitter Creek area.



Fracturing Schedules  
BITTER CREEK 1122-6E  
Slickwater Frac

Stage	Zone	Feet of Pay	Perfs Top, ft. Bot, ft.	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	19	8150 8153	3	9	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	1	8194 8196	3	12	0	ISIP and 5 min ISIP			Slickwater	9,450	9,450	225	225	15.0%	0.0%	0	0		52
	MESAVERDE	3	8257 8260	3	9	50	Slickwater Pad			Slickwater	17,850	27,300	425	650	28.3%	17.2%	11,156	11,156	27	28
	MESAVERDE	4	8266 8269	3	9	50	Slickwater Ramp	0.25	1	Slickwater	0	0	0	650	0.0%	0.0%	0	0	27	0
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	17,850	45,150	425	1,075	28.3%	34.6%	22,313	33,469	27	27
	MESAVERDE	8	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	0	45,150	0	1,075	0.0%	0.0%	0	33,469	0	0
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	0	45,150	0	1,075	0.0%	0.0%	0	33,469	0	0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	17,850	63,000	425	1,500	28.3%	48.3%	31,238	64,706	0	0
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	5,288	68,288	128	1,826				64,706	52	52
	MESAVERDE	2	No Perfs			50	Flush (4-1/2")													
	MESAVERDE	6	No Perfs				ISDP and 5 min ISDP													187
	MESAVERDE	3	No Perfs																	
	MESAVERDE	5	No Perfs																	
	MESAVERDE	2	No Perfs																	
		84	# of Perfs/stage		39	32.5	<< Above pump time (min)										750 gal/hr	770 lbs sand/hr		
																	CBP depth 8,060		48	
2	MESAVERDE	1	7984 7986	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	1	8022 8030	4	32	0	ISIP and 5 min ISIP			Slickwater	13,406	13,406	319	319	15.0%	0.0%	0	0		40
	MESAVERDE	1	No Perfs			50	Slickwater Pad			Slickwater	25,323	38,729	603	922	28.3%	16.7%	15,827	15,827	38	38
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	0	0	0	922	0.0%	0.0%	0	15,827	0	0
	MESAVERDE	1	No Perfs			50	SW Sweep	0	0	Slickwater	25,323	64,052	603	1,525	28.3%	33.4%	31,654	47,480	38	38
	MESAVERDE	13	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	5,250	69,302	125	1,650	0.0%	0.0%	0	47,480	0	0
	MESAVERDE	1	No Perfs			50	SW Sweep	0	0	Slickwater	3,000	72,302	71	1,721				50,480	0	0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	25,323	94,625	603	2,253	28.3%	3.2%	3,000	94,796	0	0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	5,179	99,804	123	2,376				94,796	50	50
	MESAVERDE	30	No Perfs			50	Flush (4-1/2")													
	MESAVERDE	1	No Perfs				ISDP and 5 min ISDP													167
	MESAVERDE	4	No Perfs																	
	MESAVERDE	1	No Perfs																	
	MESAVERDE	3	No Perfs																	
		72	# of Perfs/stage		38	45.1	<< Above pump time (min)										1,250 gal/hr	1,326 lbs sand/hr		
																	CBP depth 7,760		184	
3	MESAVERDE	49	7585 7587	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	0	7711 7720	4	36	0	ISIP and 5 min ISIP			Slickwater	15,019	15,019	358	358	15.0%	0.0%	0	0		45
	MESAVERDE	1	No Perfs			50	Slickwater Pad			Slickwater	28,369	43,388	675	1,033	28.3%	16.8%	17,730	17,730	43	43
	MESAVERDE	25	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	0	43,388	0	1,033	0.0%	0.0%	0	17,730	0	0
	MESAVERDE	15	No Perfs			50	SW Sweep	0	0	Slickwater	28,369	71,758	675	1,708	28.3%	33.5%	35,461	53,191	43	43
	MESAVERDE	45	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	3,250	77,006	125	1,833	0.0%	0.0%	0	53,191	0	0
	MESAVERDE	0	No Perfs			50	SW Sweep	0	0	Slickwater	80,006	71	1,905				56,191	0	0	
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	28,369	105,375	675	2,509	28.3%	2.6%	3,000	94,796	0	0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	4,919	110,294	117	2,626				105,837	0	0
	MESAVERDE	0	No Perfs			50	Flush (4-1/2")													48
	MESAVERDE	0	No Perfs				ISDP and 5 min ISDP													178
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
		134	# of Perfs/stage		42	50.2	<< Above pump time (min)										750 gal/hr	793 lbs sand/hr		
																	CBP depth 7,348		187	
4	MESAVERDE	29	7298 7304	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	21	7314 7319	4	16	0	ISIP and 5 min ISIP			Slickwater	8,494	8,494	202	202	15.0%	0.0%	0	0		25
	MESAVERDE	3	No Perfs			50	Slickwater Pad			Slickwater	16,044	24,538	382	584	28.3%	17.2%	10,027	10,027	24	24
	MESAVERDE	5	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	0	24,538	0	584	0.0%	0.0%	0	10,027	0	0
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	16,044	40,581	382	966	28.3%	34.6%	20,055	30,082	24	24
	MESAVERDE	17	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	0	40,581	0	966	0.0%	0.0%	0	30,082	0	0
	MESAVERDE	0	No Perfs			50	SW Sweep	0	0	Slickwater	0	40,581	0	966	0.0%	0.0%	0	30,082	0	0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	16,044	56,625	382	1,348	28.3%	48.3%	28,077	58,159	0	0
	MESAVERDE	0	No Perfs			50	Flush (4-1/2")				4,731	61,356	113	1,461				58,159	46	46
	MESAVERDE	0	No Perfs				ISDP and 5 min ISDP													118
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
		76	# of Perfs/stage		40	27.0	<< Above pump time (min)										750 gal/hr	770 lbs sand/hr		
																	CBP depth 7,039		209	
5	MESAVERDE	1	6904 6906	4	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	3	7001 7009	4	32	0	ISIP and 5 min ISIP			Slickwater	6,375	6,375	152	152	15.0%	0.0%	0	0		19
	MESAVERDE	2	No Perfs			50	Slickwater Pad			Slickwater	12,042	18,417	287	438	28.3%	17.2%	7,526	7,526	18	18
	MESAVERDE	10	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	0	18,417	0	438	0.0%	0.0%	0	7,526	0	0
	MESAVERDE	3	No Perfs			50	SW Sweep	0	0	Slickwater	12,042	30,458	287	725	28.3%	34.5%	15,052	22,578	18	18
	MESAVERDE	3	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	0	30,458	0	725	0.0%	0.0%	0	22,578	0	0
	MESAVERDE	1	No Perfs			50	SW Sweep	0	0	Slickwater	0	30,458	0	725	0.0%	0.0%	0	22,578	0	0
	MESAVERDE	6	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	12,042	42,500	287	1,012	28.3%	0.0%	0	22,578	0	0
	MESAVERDE	2	No Perfs			50	Flush (4-1/2")				4,474	46,974	107	1,118				43,651	42	42
	MESAVERDE	0	No Perfs				ISDP and 5 min ISDP													97
	MESAVERDE	1	No Perfs																	
	MESAVERDE	10	No Perfs																	
	MESAVERDE	0	No Perfs																	
		43	# of Perfs/stage		40	20.2	<< Above pump time (min)										1,000 gal/hr	1,027 lbs sand/hr		
																	CBP depth 6,450		404	
6	WASATCH	11	6410 6420	4	40	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	11	No Perfs			0	ISIP and 5 min ISIP			Slickwater	4,125	4,125	98	98	15.0%	0.0%	0	0		12
	WASATCH	0	No Perfs			40	Slickwater Pad			Slickwater	7,792	11,917	186	284	28.3%	17.2%	4,870	4,870	12	12
	WASATCH	0	No Perfs			40	Slickwater Ramp	0.25	1	Slickwater	0	11,917	0	284	0.0%	0.0%	0	4,870	0	0
	WASATCH	0	No Perfs			40	SW Sweep	0	0	Slickwater	7,792	19,708	186	469	28.3%	34.5%	9,740	14,609	12	12
	WASATCH	0	No Perfs			40	Slickwater Ramp	1	1.5	Slickwater	0	19,708	0	469	0.0%	0.0%	0	14,609	0	0
	WASATCH	0	No Perfs			40	SW Sweep	0	0	Slickwater	0	19,708	0	469	0.0%	0.0%	0	14,609	0	0
	WASATCH	0	No Perfs			40	Slickwater Ramp	0.5	1.5	Slickwater	7,792	27,500	186	655	26.3%	48.3%	13,635	28,245	0	0
	WASATCH	0	No Perfs			40	Flush (4-1/2")				4,152	31,652	99	754				28,245	0	0
	WASATCH	0	No Perfs				ISDP and 5 min ISDP													36
	WASATCH	0	No Perfs																	
	WASATCH	0	No Perfs																	



**BITTER CREEK 1122-6E**  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	8150	8153	3	9	8102	to	8121
	MESAVERDE	8194	8198	3	12	8125.5	to	8126
	MESAVERDE	8257	8260	3	9	8128	to	8130.5
	MESAVERDE	8268	8269	3	9	8133.5	to	8137
	MESAVERDE		No Perfs			8142	to	8144
	MESAVERDE		No Perfs			8148	to	8156
	MESAVERDE		No Perfs			8157.5	to	8159.5
	MESAVERDE		No Perfs			8164.5	to	8166
	MESAVERDE		No Perfs			8168	to	8169
	MESAVERDE		No Perfs			8174.5	to	8176.5
	MESAVERDE		No Perfs			8178	to	8183.5
	MESAVERDE		No Perfs			8185	to	8187.5
	MESAVERDE		No Perfs			8194	to	8198.5
	MESAVERDE		No Perfs			8201	to	8203
	MESAVERDE		No Perfs			8213	to	8213.5
	MESAVERDE		No Perfs			8222	to	8224
	MESAVERDE		No Perfs			8226.5	to	8231
	MESAVERDE		No Perfs			8232.5	to	8233.5
	MESAVERDE		No Perfs			8239	to	8239.5
	MESAVERDE		No Perfs			8244.5	to	8245
	MESAVERDE		No Perfs			8255	to	8261
	MESAVERDE		No Perfs			8266.5	to	8271
	MESAVERDE		No Perfs			8275	to	8277
	MESAVERDE		No Perfs			8278	to	8283
	MESAVERDE		No Perfs			8287	to	8288
	# of Perfs/stage				39	CBP DEPTH	8,060	
2	MESAVERDE	7984	7986	3	6	7936	to	7936.5
	MESAVERDE	8022	8030	4	32	7944	to	7944.5
	MESAVERDE		No Perfs			7948	to	7948.5
	MESAVERDE		No Perfs			7951.5	to	7952
	MESAVERDE		No Perfs			7977	to	7977.5
	MESAVERDE		No Perfs			7981	to	7993.5
	MESAVERDE		No Perfs			7995.5	to	7996.5
	MESAVERDE		No Perfs			8003	to	8005
	MESAVERDE		No Perfs			8007.5	to	8009
	MESAVERDE		No Perfs			8012	to	8041.5
	MESAVERDE		No Perfs			8057.5	to	8058.5
	MESAVERDE		No Perfs			8061.5	to	8065.5
	MESAVERDE		No Perfs			8067.5	to	8068.5
	MESAVERDE		No Perfs			8071.5	to	8074.5
	MESAVERDE		No Perfs			8079	to	8079
	MESAVERDE		No Perfs			8081	to	8081.5
	MESAVERDE		No Perfs			8085	to	8098
	# of Perfs/stage				38	CBP DEPTH	7,750	
3	MESAVERDE	7585	7587	3	6	7546.5	to	7595
	MESAVERDE	7711	7720	4	36	7597	to	7597
	MESAVERDE		No Perfs			7598	to	7598.5
	MESAVERDE		No Perfs			7603.5	to	7604
	MESAVERDE		No Perfs			7643	to	7667.5
	MESAVERDE		No Perfs			7688	to	7702.5
	MESAVERDE		No Perfs			7703.5	to	7748.5
	# of Perfs/stage				42	CBP DEPTH	7,348	
4	MESAVERDE	7298	7304	4	24	7281	to	7310
	MESAVERDE	7314	7318	4	16	7311	to	7332
	MESAVERDE		No Perfs			7336.5	to	7339
	MESAVERDE		No Perfs			7341.5	to	7346.5
	MESAVERDE		No Perfs			7350.5	to	7352
	MESAVERDE		No Perfs			7354.5	to	7371
	# of Perfs/stage				40	CBP DEPTH	7,039	
5	MESAVERDE	6904	6906	4	8	6870	to	6871
	MESAVERDE	7001	7009	4	32	6875	to	6878
	MESAVERDE		No Perfs			6884.5	to	6887.5
	MESAVERDE		No Perfs			6895.5	to	6897.5
	MESAVERDE		No Perfs			6901.5	to	6911
	MESAVERDE		No Perfs			6915	to	6917.5
	MESAVERDE		No Perfs			6934	to	6936.5
	MESAVERDE		No Perfs			6949	to	6950
	MESAVERDE		No Perfs			6951	to	6957
	MESAVERDE		No Perfs			6960	to	6961.5
	MESAVERDE		No Perfs			6963	to	6963
	MESAVERDE		No Perfs			6975.5	to	6976.5
	MESAVERDE		No Perfs			7000	to	7009.5
	# of Perfs/stage				40	CBP DEPTH	6,450	
6	WASATCH	6410	6420	4	40	6385.5	to	6396.5
	WASATCH		No Perfs			6410	to	6421
	# of Perfs/stage				40	CBP DEPTH	6,360	
Totals					239			



Fracturing Schedules  
BITTER CREEK 1122-6E  
Slickwater Frac

Stage	Zone	Feet		SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
		Top, ft.	Bot., ft.																	
1	MESAVERDE	19	8150 8153	3	9	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	1	8194 8198	3	12	0	ISIP and 5 min ISIP										0	0		52
	MESAVERDE	3	8257 8260	3	9	50	Slickwater Pad			Slickwater	9,450	9,450	225	225	15.0%	0.0%	0	0		28
	MESAVERDE	4	8266 8269	3	9	50	Slickwater Ramp	0.25	1	Slickwater	17,850	27,300	425	650	28.3%	17.2%	11,156	11,156		27
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	0	27,300	0	650		0.0%	0	11,156		0
	MESAVERDE	8	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	17,850	45,150	425	1,075	28.3%	34.5%	22,313	33,469		27
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	0	45,150	0	1,075		0.0%	0	33,469		0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	45,150	0	1,075		0.0%	0	33,469		0
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	17,850	63,000	425	1,500	28.3%	48.3%	31,238	64,706		0
	MESAVERDE	2	No Perfs			50	Flush (4-1/2")				5,288	68,288	126	1,626				64,706		52
	MESAVERDE	6	No Perfs				ISDP and 5 min ISDP					68,288								187
	MESAVERDE	3	No Perfs																	
	MESAVERDE	5	No Perfs																	
	MESAVERDE	2	No Perfs																	
		84	# of Perfs/stage		39					Sand laden Volume		63,000				gal/ft	750	770	lbs sand/ft	
						32.6	<< Above pump time (min)							Flush depth	8100		CBP depth	8,060		40
2	MESAVERDE	1	7984 7986	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	1	8022 8030	4	32	0	ISIP and 5 min ISIP													
	MESAVERDE	1	No Perfs			50	Slickwater Pad			Slickwater	13,406	13,406	319	319	15.0%	0.0%	0	0		40
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	25,323	38,729	603	922	28.3%	16.7%	15,827	15,827		38
	MESAVERDE	1	No Perfs			50	SW Sweep	0	0	Slickwater	0	38,729	0	922		0.0%	0	15,827		0
	MESAVERDE	13	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	25,323	64,052	603	1,525	28.3%	33.4%	31,654	47,480		38
	MESAVERDE	1	No Perfs			50	SW Sweep	0	0	Slickwater	5,250	69,302	125	1,650		0.0%	0	47,480		0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	3,000	72,302	71	1,721		3.2%	3,000	50,480		0
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	25,323	94,625	603	2,253	28.3%	46.7%	44,315	94,796		0
	MESAVERDE	30	No Perfs			50	Flush (4-1/2")				5,179	99,804	123	2,376				94,796		50
	MESAVERDE	1	No Perfs				ISDP and 5 min ISDP					99,804								167
	MESAVERDE	4	No Perfs																	
	MESAVERDE	1	No Perfs																	
	MESAVERDE	3	No Perfs																	
		72	# of Perfs/stage		38					Sand laden Volume		89,375				gal/ft	1,250	1,326	lbs sand/ft	
						45.1	<< Above pump time (min)							Flush depth	7934		CBP depth	7,750		184
3	MESAVERDE	49	7585 7587	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	0	7711 7720	4	36	0	ISIP and 5 min ISIP													
	MESAVERDE	1	No Perfs			50	Slickwater Pad			Slickwater	15,019	15,019	358	358	15.0%	0.0%	0	0		45
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	28,369	43,388	675	1,033	28.3%	16.8%	17,730	17,730		43
	MESAVERDE	25	No Perfs			50	SW Sweep	0	0	Slickwater	0	43,388	0	1,033		0.0%	0	17,730		0
	MESAVERDE	16	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	28,369	71,756	675	1,708	28.3%	33.5%	35,461	53,191		43
	MESAVERDE	45	No Perfs			50	SW Sweep	0	0	Slickwater	5,250	77,006	125	1,833		0.0%	0	53,191		0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	3,000	80,006	71	1,905		2.8%	3,000	56,191		0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	28,369	105,375	675	2,509	28.3%	46.9%	49,645	105,837		0
	MESAVERDE	0	No Perfs			50	Flush (4-1/2")				4,919	110,294	117	2,626				105,837		48
	MESAVERDE	0	No Perfs				ISDP and 5 min ISDP					110,294								178
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
	MESAVERDE	0	No Perfs																	
		134	# of Perfs/stage		42					Sand laden Volume		100,125				gal/ft	750	793	lbs sand/ft	
						50.2	<< Above pump time (min)							Flush depth	7535		CBP depth	7,348		187
4	MESAVERDE	29	7298 7304	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	21	7314 7318	4	16	0	ISIP and 5 min ISIP													
	MESAVERDE	3	No Perfs			50	Slickwater Pad			Slickwater	8,494	8,494	202	202	15.0%	0.0%	0	0		25
	MESAVERDE	5	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	16,044	24,538	382	584	28.3%	17.2%	10,027	10,027		24
	MESAVERDE	2	No Perfs			50	SW Sweep	0	0	Slickwater	0	24,538	0	584		0.0%	0	10,027		0
	MESAVERDE	17	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	16,044	40,581	382	966	28.3%	34.5%	20,055	30,082		24
	MESAVERDE	0	No Perfs			50	SW Sweep	0	0	Slickwater	0	40,581	0	966		0.0%	0	30,082		0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	40,581	0	966		0.0%	0	30,082		0
	MESAVERDE	0	No Perfs			50	Slickwater Ramp	1.5	2	Slickwater	16,044	56,625	382	1,348	28.3%	48.3%	28,077	58,159		0
	MESAVERDE	0	No Perfs			50	Flush (4-1/2")				4,731	61,356	113	1,461				58,159		46
	MESAVERDE	0	No Perfs				ISDP and 5 min ISDP					61,356								119
	MESAVERDE	0	No Perfs																	
		76	# of Perfs/stage		40					Sand laden Volume		56,625				gal/ft	750	770	lbs sand/ft	
						27.0	<< Above pump time (min)							Flush depth	7248		CBP depth	7,039		209
5	MESAVERDE	1	6904 6906	4	8	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	3	7001 7009	4	32	0	ISIP and 5 min ISIP													
	MESAVERDE	3	No Perfs			50	Slickwater Pad			Slickwater	6,375	6,375	152	152	15.0%	0.0%	0	0		19
	MESAVERDE	2	No Perfs			50	Slickwater Ramp	0.25	1	Slickwater	12,042	18,417	287	438	28.3%	17.2%	7,526	7,526		18
	MESAVERDE	10	No Perfs			50	SW Sweep	0	0	Slickwater	0	18,417	0	438		0.0%	0	7,526		0
	MESAVERDE	3	No Perfs			50	Slickwater Ramp	1	1.5	Slickwater	12,042	30,458	287	725	28.3%	34.5%	15,052	22,578		18
	MESAVERDE	3	No Perfs			50	SW Sweep	0	0	Slickwater	0	30,458	0	725		0.0%	0	22,578		0
	MESAVERDE	1	No Perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	30,458	0	725						



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU25880
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		6. If Indian, Allottee or Tribe Name
Contact: SHEILA UPCHEGO Email: sheila.upchego@anadarko.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435-781-7024	8. Well Name and No. BITTER CREEK 1122-6E
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T11S R22E SWNW 2343FNL 1070FWL		9. API Well No. 43-047-39760
		10. Field and Pool, or Exploratory UNDESIGNATED
		11. County or Parish, and State UINTAH COUNTY, UT

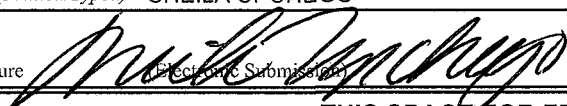
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THE OPERATOR HAS COMMINGLED THE NEWLY WASATCH AND MESAVERDE FORMATION. THE OPERATOR HAS PLACED THE SUBJECT WELL LOCATION ON 01/25/2009 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #67027 verified by the BLM Well Information System For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal	
Name (Printed/Typed) SHEILA UPCHEGO	Title OPERATIONS
Signature 	Date 02/05/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office _____		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

**RECEIVED**  
**FEB 09 2009**  
DIV. OF OIL, GAS & MINING



# ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E		Spud Conductor: 11/11/2008		Spud Date: 11/21/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 11/21/2008		End Date: 12/10/2008	
Active Datum: RKB @5,559.00ft (above Mean Sea Level)		UWI: 0/11/S/22/E/6/0/SWNNW/6/PM/N/2,343.00/W/0/1,070.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
11/21/2008	5:00 - 12:00	7.00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 0500 HR 11/21/08 DA 990'
11/22/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1690'
	12:00 - 18:00	6.00	DRLSUR	02		P		RIG T/D @ 1870' CONDITION HOLE 1 HR
	18:00 - 20:00	2.00	DRLSUR	05		P		TRIP DP OUT OF HOLE
	20:00 - 22:00	2.00	DRLSUR	11		P		RUN 1835' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	22:00 - 23:00	1.00	DRLSUR	15		P		CEMENT 1ST STAGE WITH 150 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB + - 20 BBL LEAD CMT TO PIT
	23:00 - 23:30	0.50	DRLSUR	15		P		1ST TOP JOB 160 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND STAYED AT SURFACE
	23:30 - 23:30	0.00	DRLSUR					NO VISIBLE LEAKS PIT 20% FULL WORT
11/29/2008	2:00 - 0:00	22.00	MIRU	01	E	P		RDRT PREPARE RIG F/ MOVE TO BITTER CREEK 1122-6E
11/30/2008	0:00 - 7:00	7.00	MIRU	01	E	P		RDRT PREPARE RIG F/ MOVE
	7:00 - 18:00	11.00	MIRU	01	A	P		MOVE RIG TO BITTER CREEK 1122-6E 4 MILES ,RIG IS 80% ON LOC & SET IN ,3-BED TRUCKS,6-HAUL TRUCKS,2-FORKLIFTS AND CRANE ON LOC @ 07:00 SDFN @ 18:00
	18:00 - 20:00	2.00	MIRU	01	B	P		RIG UP LIGHTS,FUEL & GENERATOR
	20:00 - 0:00	4.00	MIRU	01	B	P		SDFN,WILL CONTINUE MIRU @ 07:00
12/1/2008	0:00 - 6:00	6.00	MIRU	01	A	P		SDFN
	6:00 - 21:00	15.00	MIRU	01	B	P		FINISH MOVING RIG ,RURT ,3 BED TRUCKS,1 HAUL TRUCK,2 FORKLIFTS & CRANE START @ 07:00,TRUCKS RELEASED @ 10:00,CRANE @ 11:00
	21:00 - 0:00	3.00	MIRU	13	A	P		NIPPLE UP BOP
12/2/2008	0:00 - 0:30	0.50	DRLPRO	13	A	P		FINISH NIPPLE UP BOP
	0:30 - 5:30	5.00	DRLPRO	13	C	P		SAFETY MEETING W/ B&C QUICK TEST,TEST BOP TO 5000 PSI,ANNULAR TO 2500 PSI,CASING TO 1500 PSI, R/D TESTER
	5:30 - 6:00	0.50	DRLPRO	13	B	P		INSTALL WEAR RING
	6:00 - 9:30	3.50	DRLPRO	05	A	P		SAFETY MEETING W/ TESCO R/U & P/U DRILL STRING
	9:30 - 11:30	2.00	DRLPRO	06	D	P		CUT AND SLIP 150' DRLG LINE
	11:30 - 12:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	12:00 - 14:30	2.50	DRLPRO	02	F	P		DRLG CMNT,FLOAT,SHOE
	14:30 - 15:30	1.00	DRLPRO	02	B	P		DRLG FORMATION F/ 1888' TO 1996' = 108' - 108' HR, MUD WT = 8.4 VIS = 27
	15:30 - 16:00	0.50	DRLPRO	09	A	P		SURVEY @ 1921' = 0.15 DEGREE
	16:00 - 22:00	6.00	DRLPRO	02	B	P		DRLG F/ 1996' TO 2502' = 506' = 84' HR MUD WT = 8.4 VIS = 27
	22:00 - 22:30	0.50	DRLPRO	09	A	P		SURVEY @ 2447' = 1.27 DEGREE
	22:30 - 0:00	1.50	DRLPRO	02	B	P		DRLG F/ 2502' TO 2629' = 127' - 85' HR MUD WT = 8.6 VIS = 39
12/3/2008	0:00 - 9:00	9.00	DRLPRO	02	B	P		DRLG F/ 2629' TO 3198' = 569' - 63' HR MUD WT = 9.3 VIS = 40
	9:00 - 9:30	0.50	DRLPRO	09	A	P		SURVEY @ 3120' = 1.09 DEGREE
	9:30 - 16:00	6.50	DRLPRO	02	B	P		DRLG F/ 3198' TO 3799' = 601' - 92' HR MUD WT = 10.0 VIS = 40
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG



# ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E		Spud Conductor: 11/11/2008		Spud Date: 11/21/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 11/21/2008		End Date: 12/10/2008	
Active Datum: RKB @5,559.00ft (above Mean Sea Level)		UWI: 0/11/S/22/E/6/0/SWNW/6/PM/N/2,343.00/W/0/1,070.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
12/4/2008	16:30 - 19:00	2.50	DRLPRO	02	B	P		DRLG F/ 3799' TO 4084' = 285' - 114' HR MUD WY = 10.2 VIS = 42
	19:00 - 19:30	0.50	DRLPRO	09	A	P		SURVEY @ 4009' = 2 DEGREE
	19:30 - 0:00	4.50	DRLPRO	02	B	P		DRLG F/ 4084' TO 4436' = 352' - 78' HR MUD WT = 10.3 VIS = 44
	0:00 - 8:00	8.00	DRLPRO	02	B	P		DRLG F/ 4436' TO 5033' = 597' - 75' HR MUD WT = 10.4 VIS = 44
	8:00 - 8:30	0.50	DRLPRO	09	A	P		SURVEY @ 4957' = 2.09 DEGREE
	8:30 - 16:00	7.50	DRLPRO	02	B	P		DRLG F/ 5033' TO 5445' = 412' - 55' HR MUD WT = 10.7 VIS = 44
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
12/5/2008	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG F/ 5445' TO 5804' = 359' - 48' HR MUD WT = 10.8 VIS = 44
	0:00 - 5:00	5.00	DRLPRO	02	B	P		DRLG F/ 5804' TO 5929' = 125' - 25' HR MUD WT = 10.8 VIS = 44
	5:00 - 5:30	0.50	DRLPRO	07	A	Z		REPLACE SWIVEL PACKING IN SWIVEL
	5:30 - 12:00	6.50	DRLPRO	02	B	P		DRLG F/ 5929' TO 6087' = 158' - 24' HR MUD WT = 10.8 VIS = 44
	12:00 - 18:30	6.50	DRLPRO	05	A	P		PUMP SLUG,DROP SURVEY, TRIP F/ BIT # 1 TIGHT F/ 4624' TO 4578' AND 2949' TO 2367' LAY DOWN IBS,MM,BIT SURVEY WAS 2.18 DEGREE
	18:30 - 21:30	3.00	DRLPRO	05	A	P		PICK UP BIT # 2 AND MUD MOTOR, TRIP IN HOLE FILL @ 2000' ( NO PROBLEMS ON TRIP IN )
	21:30 - 22:00	0.50	DRLPRO	03	D	P		WASH & REAM 70' TO BOTTOM ( 5' FILL )
12/6/2008	22:00 - 0:00	2.00	DRLPRO	02	B	P		DRLF F/ 6087' TO 6169' = 82' - 41' HR MUD WT = 11.0 VIS = 43
	0:00 - 17:00	17.00	DRLPRO	02	B	P		DRLG F/ 6169' TO 7115' = 946' - 55' HR MUD WT = 11.5 VIS = 45
	17:00 - 17:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRLG F/ 7115' TO 7495' = 380' - 58' HR MUD WT = 11.8 VIS = 47
12/7/2008	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRLG F/ 7495' TO 8101' = 606' - 42' HR MUD WT = 11.8 VIS = 48
	14:30 - 15:00	0.50	DRLPRO	04	C	P		CIRC, BUILD SLUG
	15:00 - 22:00	7.00	DRLPRO	05	A	P		TRIP F/ BIT # 2, TIGHT F/ 6754' TO 6620' LAY DOWN MM, AND BIT
	22:00 - 22:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
12/8/2008	22:30 - 0:00	1.50	DRLPRO	05	A	P		P/U BIT SUB, BIT # 3 TRIP TO SHOE, FILL PIPE
	0:00 - 3:30	3.50	DRLPRO	06	D	P		CUT AND SLIP 75' DRLG LINE
	3:30 - 6:00	2.50	DRLPRO	05	A	P		TRIP IN HOLE HIT BRIDGE @ 7675' WORK TIGHT HOLE
	6:00 - 10:00	4.00	DRLPRO	03	A	X		WASH AND REAM F/ 7675' TO 8101'
12/9/2008	10:00 - 14:00	4.00	DRLPRO	02	B	P		DRLG F/ 8101' TO 8196' = 95' - 24' HR MUD WT = 11.8 VIS = 45
	14:00 - 14:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	14:30 - 16:00	1.50	DRLPRO	07	B	Z		WORK ON CHARGER PUMP F/ # 2 PUMP
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRLG F/ 8196' TO 8467' = 271' - 34' HR MUD WT = 11.8+ VIS = 44
	0:00 - 6:00	6.00	DRLPRO	02	A	P		DRLG F/ 8467' TO 8690' = 223' - 37' HR MUD WT = 11.8 VIS = 43
	6:00 - 6:30	0.50	DRLPRO	04	C	P		CIRC F/ SHORT TRIP T.D. CHANGED TO 8745'
	6:30 - 8:30	2.00	DRLPRO	02	A			DRLG F/ 8690' TO 8745' = 55' - 28' HR MUDT WT = 11.8 VIS =44
	8:30 - 10:00	1.50	DRLPRO	04	C	P		CIRC F/ SHORT TRIP
	10:00 - 11:30	1.50	DRLPRO	05	E	P		SHORT TRIP TO 7525' NO PROBLEMS
	11:30 - 13:00	1.50	DRLPRO	04	C	P		CIRC TO L.D.D.P. AND BHA



# ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E			Spud Conductor: 11/11/2008				Spud Date: 11/21/2008	
Project: UTAH			Site: UINTAH				Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING			Start Date: 11/21/2008				End Date: 12/10/2008	
Active Datum: RKB @5,559.00ft (above Mean Sea Level)			UWI: 0/11/S/22/E/6/0/SWNW/6/PM/N/2,343.00/W/0/1,070.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de2	P/U	MD From (ft)	Operation
12/10/2008	13:00 - 23:00	10.00	DRLPRO	05	B	P		HELD SAFETY MTNG W/ TESCO AND RIG CREW RIG UP AND LAY DOWN D.P BRK KELLY AND VALVES, LAY DOWN BHA, PULL WEAR BUSHING
	23:00 - 0:00	1.00	DRLPRO	10	C	P		HELD SAFETY MTNG W/ LOGGERS AND RIG CREW RIG UP SAME
	0:00 - 6:00	6.00	DRLPRO	10	B	P		FINISH RIGGING UP LOGGERS, RUN TRIPLE COMBO LOGS, DEPTH = 8738' RIG DOWN SAME
	6:00 - 6:30	0.50	DRLPRO	11	A	P		HELD SAFETY MTNG W/ TESCO AND RIG CREW RIG UP SAME
	6:30 - 14:00	7.50	DRLPRO	11	B	P		RUN 206 JOINTS 41/2 CSNG
	14:00 - 14:30	0.50	DRLPRO	11	A	P		RIG DOWN TESCO
	14:30 - 20:00	5.50	DRLPRO	15	A	P		HELD SAFETY MTNG W/ BJ AND RIG CREW R/U AND CMNT - LEAD CMNT = 305 SX PL2+10% +3%KCL+5#KOL+0.5%SMS+.025#CF, TAIL CMNT = 1125 SX 50/50/
								POS+10%NaCL+0.1%R-3+0.05#SF+0.002FP-6L, TRANSMISSION FAILED ON PUMP TRUCK 70 BBLS INTO DISPLACEMENT SWITCHED OVER TO RIG PUMP FINISHED DISPLACEMENT 65 BBLS BUMPED PLUD W/ 3029 PSI, FLOATS HELD 15 BBLS LEAD TO PIT SET PACK OFF AND TEST NIPPLE DOWN BOPE & CLEAN TANKS RELEASE RIG 12/10/2008 @ 00:00 HRS
20:00 - 0:00	4.00	DRLPRO	13	A	P			



# ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E			Spud Conductor: 11/11/2008			Spud Date: 11/21/2008			
Project: UTAH			Site: UINTAH				Rig Name No: GWS 1/1		
Event: COMPLETION			Start Date: 1/9/2009				End Date: 1/21/2009		
Active Datum: RKB @5,559.00ft (above Mean Sea Level)			UWI: 0/11/S/22/E/6/0/SWNNW/6/PM/N/2,343.00/W/0/1,070.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
1/19/2000	7:00 - 7:30	0.50	COMP	48		P		HSM.	
	7:30 - 16:00	8.50	COMP	31	I	P		OPEN WELL 0#. PU 3 7/8 MILL & BIT SUB. PREP & TALLY NEW 2 3/8, J-55 TBG. RIH W/ 2 3/8 TBG. WHILE RIH W/ TBG DRL MUD WAS DISP FREEZING SLIPS & TBG TONGS, MADE FOR SLOW TRIPPING. PU 100 JTS TBG CIRC 3100' OF DRL MUD T/ PIT.( WHILE DRLING RIG WAS PUMPING CMT T/ SET 4 1/2 CSG, 70 BBLS INTO DISPLACEMENT, BJ PUMP TRUCK FAILED, DRL RIG FINISHED DISP W/ 65 BBLS DRL MUD. ) PU 100 MORE JTS. CIRC MUD T/ PIT AGIAN @ 6245'. X-OVER POOH S.B. 200 JTS 2 3/8, J-55 TBG. ND BOP, NU FRAC VALVES. WINTERIZE WH. SWI. SDFN.	
1/16/2009	7:00 - 7:30	0.50	COMP	48		P		HSM	
	7:30 - 18:00	10.50	COMP	30	A	P		ROAD RIG F/ NBU 1021-2L, T/ B.C 1122-6E. MIRU RIG & SPOT EQUIP. OPEN WELL 0#. ND WH, NU BOP. RU RIG FLOOR & TBG EQUIP. SWI, SDFWE.	
1/20/2009	7:00 - 7:30	0.50	COMP	48		P		HSM	



ROCKIES

Operation Summary Report

Well: BITTER CREEK 1122-6E		Spud Conductor: 11/11/2008		Spud Date: 11/21/2008	
Project: UTAH		Site: UINTAH		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 1/9/2009		End Date: 1/21/2009	
Active Datum: RKB @5,559.00ft (above Mean Sea Level)		UWI: 0/11/S/22/E/6/0/SWNNW/6/PM/N/2,343.00/W/0/1,070.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:30 - 18:00	10.50	COMP	36	B	P		<p>MIRU B&amp;C QUICK TEST. OPEN WELL 0#. PSI TEST CSG &amp; BOTH FRAC VALVES T/ 7500#. GOOD TEST. RDMO B&amp;C QUICK TEST. MIRU CUTTERS W.L. &amp; WEATHERFORD FRAC SERV.</p> <p>STG 1)PU 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF F/ 8266'-69', 3 SPF, 9 HOLES. 8257'-60', 3 SPF, 9 HOLES. 8194'-98', 3 SPF, 12 HOLES. 8150'-53', 3 SPF, 9 HOLES. POOH. WAIT FOR FRAC CREW T/ RU LINES &amp; FRAC HEAD. PSI TEST FRAC LINES T/ 8500#. GOOD TEST. BLEED OFF PSI. OPEN WEL 0#. BEG PUMP, BRK @ 3947# @ 3.0 BPM. SD ISIP 3175#, FG .83. BEG FRAC PUMP 40,723# SAND, PSI CLIMBED UP T/ 6500#, PUMPED 125 BBL SWEEP. PSI CAME DOWN T/ 6100#. STARTED SAND 19,000# 30/50 WHITE AND TAIL IN W/ 5,000# TLC + FLUSH. SD ISIP 3240#, FG .84. WHILE SHUTTING GROUND VALVES ON FRAC LINE, FOUND TOP OF VALVE HAD BROKE OFF. CALL FOR NEW GROUND VALVE. X-OVER FOR W.L.</p> <p>STG 2)PU 4 1/2, 8K BAKER CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 &amp; 120 DEG PHASING. RIH SET CBP @ 8060' P/U PERF F/ 8022'-30', 4 SPF, 32 HOLES. 7984'-86', 3 SPF, 6 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 1800#. BEG PUMP, BRK @ 4467# @ 3.4 BPM. SD ISIP 3009#, FG .82. BEG FRAC PUMP 89,737# 30/50 WHITE &amp; TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2705#, FG .78. ( PUMPED 125 BBL SWEEP &amp; 71 BBL .5# T/ 1.5# SAND RAMP. ) X-OVER FOR W.L.</p> <p>STG 3)PU 4 1/2, 8K BAKER CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 &amp; 120 DEG PHASING. RIH SET CBP @ 7750', P/U PERF F/ 7711'-20', 4 SPF, 36 HOLES. 7585'-87', 3 SPF, 6 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 240#. BEG PUMP, BRK @ 4227# @ 2.7 BPM. SD ISIP 2273#, FG .74. BEG FRAC PUMP 100,850# 30/50 WHITE &amp; TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2294#, FG .74. ( PUMPED 125 BBL SWEEP &amp; 71 BBL .5# T/ 1.5# SAND RAMP. ) X-OVER FOR W.L.</p> <p>STG 4)PU 4 1/2, 8K BAKER CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH SET CBP @ 7348' P/U PERF F/ 7314'-18', 4 SPF, 16 HOLES. 7298'-04', 4 SPF, 24 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 0#. BEG PUMP, BRK @ 3511# @ 2.7 BPM. SD ISIP 2007#, FG .2.7. BEG FRAC, PUMP 53,086# 30/50 WHITE &amp; TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2307#, FG .76. X-OVER FOR W.L.</p> <p>STG 5)PU 4 1/2, 8K BAKER CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH</p>



## ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E

Spud Conductor: 11/11/2008

Spud Date: 11/21/2008

Project: UTAH

Site: UINTAH

Rig Name No: GWS 1/1

Event: COMPLETION

Start Date: 1/9/2009

End Date: 1/21/2009

Active Datum: RKB @5,559.00ft (above Mean Sea Level)

UWI: 0/11/S/22/E/6/0/SWNW/6/PM/N/2,343.00/W/0/1,070.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
1/21/2009	7:00 - 7:30	0.50	COMP	48		P		<p>SET CBP @ 7039', P/U PERF F/ 7001'-09', 4 SPF, 32 HOLES. 6904'-06', 4 SPF, 8 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 0#. BEG PUMP, BRK @ 2948# @ 2.9 BPM. SD ISIP 2107#, FG .75. BEG FRAC, PUMP 38,414# 30/50 WHITE &amp; TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 3112#, FG .89. X-OVER FOR W.L.</p> <p>STG 6) PU 4 1/2, 8K BAKER CBP &amp; 3 3/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6450' P/U PERF F/ 6410'-20', 4 SPF, 40 HOLES. POOH, X-OVER FOR FRAC CREW. OPEN WELL 0#. BEG PUMP, BRK @ 3132# @ 2.9 BPM. SD ISIP 1751#, FG .72. BEG FRAC PUMP 24,092# 30/50 WHITE &amp; TAIL IN W/ 5,000# 20/40 TLC. SD ISIP 2813#, FG .88. X-OVER FOR W.L..</p> <p>PU 4 1/2, 8K BAKER CBP, RIH SET CBP @ 6363'. POOH. RDMO CUTTERS W.L. &amp; WEATHERFORD FRAC SERV. OPEN WELL BLEED OFF PSI. ND FRAC VALVES, NUBOP. RU RIG FLOOR &amp; TBG EQUIP. PU 3 7/8 BIT + X-DART + BOPS + XN-NIPPLE 1.875. RIH W/ 2 3/8, J-55 TBG T/ 6300'. RU DRL EQUIP. SWI SDFN. PREP T/ DRL OUT CBP'S IN THE :AM.</p> <p>HSM.</p>



## ROCKIES

## Operation Summary Report

Well: BITTER CREEK 1122-6E		Spud Conductor: 11/11/2008		Spud Date: 11/21/2008	
Project: UTAH		Site: UINTAH			Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 1/9/2009		End Date: 1/21/2009	
Active Datum: RKB @5,559.00ft (above Mean Sea Level)		UWI: 0/11/S/22/E/6/0/SWNW/6/PM/N/2,343.00/W/0/1,070.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:30 - 18:00	10.50	COMP	44	C	P		<p>OPEN WELL 0#. BRK CONV CIRC W/ RIG PUMP. CBP 1)TAG FILL @ 6342'=21' FILL. C/O SAND, DRL OUT CBP @ 6363' IN 7 MIN. 400# INCR. CONT RIH.</p> <p>CBP 2)TAG FILL @ 6435'=15' FILL. C/O 15' SAND, DRL OUT CBP @ 6450' IN 8 MIN. 150# INCR. CONT RIH.</p> <p>CBP 3)TAG FILL @ 7019'=20' FILL. C/O SAND, DRL OUT CBP @ 7039' IN 8 MIN, 500# INCR. CONT RIH.</p> <p>CBP 4)TAG FILL @ 7333'=15' FILL. C/O SAND, DRL OUT CBP @ 7348' IN 7 MIN. 200# INCR. CONT RIH.</p> <p>CBP 5)TAG FILL @ 7730'=30' FILL. C/O SAND, DRL OUT CBP @ 7750' IN 6 MIN. 150# INCR. CONT RIH.</p> <p>CBP 6)TAG FILL @ 8030'=30' FILL. C/O SAND, DRL OUT CBP @ 8060' IN 5 MIN. 300# INCR CONT RIH T/ 8407'= 138' PASSED BTM PERF. RD DRL EQUIP. POOH. LD 14 JTS 2 3/8, J-55 PU 4 1/16 TBG HNGR. LAND TBG W/ KB 18.00 4 1/16 HNGR .83 254 JTS 2 3/8, J-55 TBG. 7946.48 BOPS 2.20</p> <p>EOT @ 7967.51 ND BOP, NUWH. DROP BALL. PUMP BIT OFF W/ 20 BBLS 2%, 1900#. SD. SWI FOR 30 MIN. OPEN T/ PIT, FTP 75#, SICP 950#. TURN WELL OVER T/ FBC. RACK OUT EQUIP. RD RIG. SDFN.</p> <p>AZTEC 289 JTS 2 3/8, J-55 TBG. RIG COUNT 288 JTS GOOD &amp; 1 JT BAD. SEND BAD JT T/ PRS. 7 AM FLBK REPORT: CP 1250#, TP 1000#, 20/64" CK, 40 BWPH, 2/3 CUP SAND, - GAS TTL BBLS RECOVERED: 2523 BBLS LEFT TO RECOVER: 8037 7 AM FLBK REPORT: CP 1200#, TP 775#, 20/64" CK, 60 BWPH, 1/2 CUP SAND, - GAS TTL BBLS RECOVERED: 3963 BBLS LEFT TO RECOVER: 6597 7 AM FLBK REPORT: CP 1625#, TP 950#, 20/64" CK, 35 BWPH, 1/4 CUP SAND, - GAS TTL BBLS RECOVERED: 5018 BBLS LEFT TO RECOVER: 5542</p> <p>WELL TURNED TO SALES @ 1000 HR ON 1/25/2009 - FTP 1000#, CP 1725#, CK 20/64", 496 MCFD, 480 BWPD 7 AM FLBK REPORT: CP 1950#, TP 1150#, 20/64" CK, 30 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 5778 BBLS LEFT TO RECOVER: 4782</p>
1/23/2009	7:00 -			33	A			
1/24/2009	7:00 -			33	A			
1/25/2009	7:00 -			33	A			
	10:00 -		PROD					
1/26/2009	7:00 -			33	A			



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU25880

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE			Contact: SHEILA UPCHEGO Mail: sheila.upchego@anadarko.com		
3. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078			3a. Phone No. (include area code) Ph: 435-781-7024		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWNW Lot 5 2343FNL 1070FWL At top prod interval reported below SWNW Lot 5 2343FNL 1070FWL At total depth SWNW Lot 5 2343FNL 1070FWL			8. Lease Name and Well No. BITTER CREEK 1122-6E		
14. Date Spudded 11/11/2008			15. Date T.D. Reached 12/09/2008		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 01/25/2009			9. API Well No. 43-047-39760		
18. Total Depth: MD 8745 TVD			19. Plug Back T.D.: MD 8407 TVD		
20. Depth Bridge Plug Set: MD TVD			17. Elevations (DF, KB, RT, GL)* 5541 GL		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL-CCL-GR <i>comp 2, CN, cal</i>			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J-55	36.0		1870		510			
7.875	4.500 I-80	11.6		8745		1430			

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7967							

## 25. Producing Intervals

## 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	6410	6420	6410 TO 6420	0.360	40	OPEN
B) MESAVERDE	6904	8269	6904 TO 8269	0.360	199	OPEN
C)						
D)						

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6410 TO 6420	PMP 810 BBLS SLICK H2O & 31,143# 30/50 OTTOWA SD
6904 TO 8269	PMP 9753 BBLS SLICK H2O & 366,860# 30/50 OTTOWA SD

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/25/2009	02/13/2009	24	→	0.0	1690.0	200.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. 777 SI	Csg. Press. 1226.0	24 Hr. Rate →	Oil BBL 0	Gas MCF 1690	Water BBL 200	Gas:Oil Ratio	Well Status PGW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/25/2009	02/13/2009	24	→	0.0	1690.0	200.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. 777 SI	Csg. Press. 1226.0	24 Hr. Rate →	Oil BBL 0	Gas MCF 1690	Water BBL 200	Gas:Oil Ratio	Well Status PGW	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #67582 VERIFIED BY THE BLM WELL INFORMATION SYSTEM



\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED



RECEIVED

MAR 02 2009

DIV. OF OIL, GAS &amp; MINING



Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

Date First Produced	Test Date	Hours Tested	Test Production 	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate 	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

### 31. Formation (Log) Markers

[illegible]

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #67582 Verified by the BLM Well Information System.  
For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (please print) SHEILA UPCHEGO

Title OPERATIONS

Signature

(Electronic Submission)

Date 02/25/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***